



COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY

TIDEWATER REGIONAL OFFICE

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Molly Joseph Ward
Secretary of Natural Resources

David K. Paylor
Director

Maria R. Nold
Regional Director

Federal Operating Permit Article 1

This permit is based upon the requirements of Title V of the Federal Clean Air Act and Chapter 80, Article 1, of the Commonwealth of Virginia Regulations for the Control and Abatement of Air Pollution. Until such time as this permit is reopened and revised, modified, revoked, terminated or expires, the permittee is authorized to operate in accordance with the terms and conditions contained herein. This permit is issued under the authority of Title 10.1, Chapter 13, §10.1-1322 of the Air Pollution Control Law of Virginia. This permit is issued consistent with the Administrative Process Act, and 9 VAC 5-80-50 through 9 VAC 5-80-300 of the State Air Pollution Control Board Regulations for the Control and Abatement of Air Pollution of the Commonwealth of Virginia.

Authorization to operate a Stationary Source of Air Pollution as described in this permit is hereby granted to:

Permittee Name:	U.S. Navy – Commander, Navy Region, Mid-Atlantic
Facility Name:	Naval Station Norfolk
Facility Location:	Sewell's Point Norfolk, Virginia
Registration Number:	60941
Permit Number:	TRO-60941

This permit includes the following programs:

Federally Enforceable Requirements - Clean Air Act (Pages 4 through 114)

State Only Enforceable Requirements (Page 114)

DRAFT

Effective Date

DRAFT

December 21, 2019

Maria R. Nold, Regional Director

DRAFT

Signature Date

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I. Facility Information

Permittee

U.S. Navy - Commander, Navy Region, Mid-Atlantic
Naval Station Norfolk
9324 Virginia Avenue
Norfolk, Virginia 23511-3095

Responsible Official

Lindsey Evans
Air Program Manager
Commander, Navy Region Mid-Atlantic

Facility

Naval Station Norfolk
Sewell's Point
Norfolk, Virginia

Contact Person

Lindsey Evans
Air Program Manager
(757) 341-0499

County-Plant Identification Number: 51-710-00194

Facility Description: NAICS 928110 - National Security

The facility is the public works/operations, supply and maintenance department at the home port of the Navy's Atlantic Fleet. No products are manufactured at the facility. There is not one distinct, overriding "process" conducted at this facility. Instead, various activities and operations are conducted primarily to support the ships and aircraft of the Navy Atlantic Fleet. Processes include, but are not limited to: external combustion units (boilers for steam heat and industrial use); internal combustion engines (diesel emergency generators); surface coating operations for maintenance of marine vessels, aircraft, and facilities; abrasive blasting related to marine vessels and aircraft maintenance; and woodworking shops for facility maintenance, packing, and shipping.

The facility is a Title V major source of NOX, CO, PM, PM10, SO2, VOC, and HAPs. This source is located in an attainment area for all pollutants, and is a PSD-sized source. The facility is not permitted under a PSD permit. The facility is currently permitted under several Minor NSR Permits dated February 18, 2010, August 10, 2011, November 17, 2011, November 21, 2011, November 22, 2011, November 23, 2011, December 14, 2011, September 24, 2012, and June 21, 2016.

II. Emission Units

Equipment to be operated consists of:

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	Pollutants Controlled	Applicable Permit Date
Boilers							
BOIL-P1-55	STBOIL-P1-55	Riley P8195 (installed 1939)	82 MMBtu/hr	Multicyclone	CDBOIL-P1-55	PM, PM10	February 18, 2010
BOIL-P1-58	STBOIL-P1-58	Riley NB 2642 (installed 1975)	235 MMBtu/hr				February 18, 2010
BOIL-P1-59	STBOIL-P1-59	Combustion Engineering CE3731 (installed 1941)	125 MMBtu/hr	Multicyclone	CDBOIL-P1-59	PM, PM10	February 18, 2010
BOIL-P1-60	STBOIL-P1-60	Combustion Engineering CE6733 (installed 1941)	125 MMBtu/hr	Multicyclone	CDBOIL-P1-60	PM, PM10	February 18, 2010
BOIL-P1-61	STBOIL-P1-61	Combustion Engineering CE3736 (installed 1941)	125 MMBtu/hr	Multicyclone	CDBOIL-P1-61	PM, PM10	February 18, 2010
BOIL-P1-62	STBOIL-P1-62	Combustion Engineering CE2848 (installed 1944)	125 MMBtu/hr	Multicyclone	CDBOIL-P1-62	PM, PM10	February 18, 2010
BOIL-Z312-25	STBOIL-Z312-25	Mitsui MB200 type D (installed 7/1995)	205.8 MMBtu/hr (natural gas)	Multicyclone	CDBOIL-Z312-25	PM, PM10	February 18, 2010
			196.5 MMBtu/hr (No. 2 fuel)				
BOIL-Z312-26	STBOIL-Z312-26	Mitsui MB200 type D (installed 7/1995)	205.8 MMBtu/hr (natural gas)	Multicyclone	CDBOIL-Z312-26	PM, PM10	February 18, 2010
			196.5 MMBtu/hr (No. 2 fuel)				
BOIL-Z312-27	STBOIL-Z312-27	Mitsui, MB200 type D (installed 7/1995)	205.8 MMBtu/hr (natural gas)	Multicyclone	CDBOIL-Z312-27	PM, PM10	February 18, 2010
			196.5 MMBtu/hr (No. 2 fuel)				
BOIL-GRP-#2	Various	#2 oil-fired boilers	< 1 MMBTU/hr each	N/A	N/A	N/A	N/A
BOIL-GRP-NG	Various	NG-fired boilers	< 10 MMBTU/hr each	N/A	N/A	N/A	N/A
Generators/Engines							
ICGF-A128	STICGF-A128	Emergency Generator; Detroit Diesel; No. 2 fuel	45 kW	N/A	N/A	N/A	N/A

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	Pollutants Controlled	Applicable Permit Date
ICGF-A48	STICGF-A48	Emergency Generator; Perkins AH50798; No. 2 fuel	60 kW	N/A	N/A	N/A	N/A
ICGF-A81	STICGF-A81	Emergency Generator; GM; No. 2 fuel	100 kW	N/A	N/A	N/A	N/A
ICGF-B30	STICGF-B30	Emergency Generator; CAT 3306; No. 2 fuel	230 kW	N/A	N/A	N/A	N/A
ICGF-BEN154	STICGF-BEN154	Emergency Generator; Cummins 4B-3.9; No. 2 fuel	15 kW	N/A	N/A	N/A	N/A
ICGF-C9	STICGF-C9	Emergency Generator; Cummins 4BT3.9-G2; No. 2 fuel	60 kW	N/A	N/A	N/A	N/A
ICGF-CA10	STICGF-CA10	Emergency Generator; Generac OA9046; Natural Gas	40 kW	N/A	N/A	N/A	N/A
ICGF-CA482-1	STICGF-CA482-1	Emergency Generator; Allis-Chalmers 3400; No. 2 fuel	50 kW	N/A	N/A	N/A	N/A
ICGF-CA482-2	STICGF-CA482-2	Emergency Generator; Generac 64238; No. 2 fuel	60 kW	N/A	N/A	N/A	N/A
ICGF-CA6	STICGF-CA6	Emergency Generator; Kohler 100REOZJF; John Deere Engine 4045HF285I; No. 2 fuel	100 kW	N/A	N/A	N/A	N/A
ICGF-CD13-100	STICGF-CD13-100	Emergency Generator; Caterpillar 3306; No. 2 fuel	100 kW	N/A	N/A	N/A	N/A
ICGF-CD13-350	STICGF-CD13-350	Emergency Generator; Kohler 350RE0z00; No. 2 fuel	350 kW	N/A	N/A	N/A	N/A
ICGF-CD2	STICGF-CD2	Emergency Generator; Caterpillar 3306; No. 2 fuel	180 kW	N/A	N/A	N/A	N/A
ICGF-CD3	STICGF-CD3	Emergency Generator; GM 10637000; No. 2 fuel	90 kW	N/A	N/A	N/A	N/A
ICGF-CD7-100	STICGF-CD7-100	Emergency Generator; Unknown; No. 2 fuel	100 kW	N/A	N/A	N/A	N/A
ICGF-CD7-50	STICGF-CD7-50	Emergency Generator; Perkins LJ30120; No. 2 fuel	50 kW	N/A	N/A	N/A	N/A
ICGF-CEP113-200	STICGF-CEP113-200	Emergency Generator; International GCD325; No. 2 fuel	200 kW	N/A	N/A	N/A	N/A

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	Pollutants Controlled	Applicable Permit Date
ICGF-CEP113-30	STICGF-CEP113-30	Emergency Generator; Perkins; No. 2 fuel	30 kW	N/A	N/A	N/A	N/A
ICGF-CEP151	STICGF-CEP151	Emergency Generator; Perkins 5PKXL04.4RE1; No. 2 fuel	30 kW	N/A	N/A	N/A	N/A
ICGF-CEP156-1000	STICGF-CEP156-1000	Emergency Generator; Caterpillar 3512; No. 2 fuel	1,000 kW	N/A	N/A	N/A	N/A
ICGF-CEP156-65	STICGF-CEP156-65	Emergency Generator; John Deere 4045TF150; No. 2 fuel	65 kW	N/A	N/A	N/A	N/A
ICPF-CEP158	STICPF-CEP158	Emergency Fire Pump; Detroit Diesel DDFP-03AN7002S; No. 2 fuel	99 hp	N/A	N/A	N/A	N/A
ICGF-CEP160	STICGF-CEP160	Emergency Generator; Perkins CM51035; No. 2 fuel	20 kW	N/A	N/A	N/A	N/A
ICGF-CEP161	STICGF-CEP161	Emergency Generator; Kohler 30 RZG; Natural gas	33 kW	N/A	N/A	N/A	N/A
ICGF-CEP167	STICGF-CEP167	Emergency Generator; Kohler 60REOZJD; John Deere Engine 5030HF285G; No. 2 fuel	60 kW	N/A	N/A	N/A	N/A
ICGF-CEP183	STICGF-CEP183	Emergency Generator; GM 50348100; No. 2 fuel	38 kW	N/A	N/A	N/A	N/A
ICGF-CEP186	STICGF-CEP186	Emergency Generator; Generac SC150; No. 2 fuel	150 kW	N/A	N/A	N/A	N/A
ICPF-CEP187	STICPF-CEP187	Emergency Fire Pump; Caterpillar 3406BDI; No. 2 fuel	306 hp	N/A	N/A	N/A	N/A
ICGF-CEP209	STICGF-CEP209	Emergency Generator; Generac Part No. 92461; No. 2 fuel	125 kW	N/A	N/A	N/A	December 14, 2011
ICGF-CEP4	STICGF-CEP4	Emergency Generator; Cummins 6CTA8.3-G; No. 2 fuel	150 kW	N/A	N/A	N/A	N/A
ICGF-CEP9	STICGF-CEP9	Emergency Generator; Kohler 250REOZJE; John Deere engine 6090HF484B; No. 2 fuel	250 kW	N/A	N/A	N/A	N/A
ICGF-D29	STICGF-D29	Emergency Generator; Caterpillar 3412; No. 2 fuel	800 kW	N/A	N/A	N/A	N/A

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	Pollutants Controlled	Applicable Permit Date
ICGF-GATE2-E2	STICGF-GATE2-E2	Emergency Generator; Mitsubishi Engine No. 0D5825; No. 2 fuel	100 kW	N/A	N/A	N/A	N/A
ICGF-NM149	STICGF- NM149	Emergency Generator; John Deere 4045TF270E	60 kW	N/A	N/A	N/A	N/A
ICGF-GATE3-U89	STICGF-GATE3-U89	Emergency Generator; Onan L423D-1/10395C; No. 2 fuel	20 kW	N/A	N/A	N/A	N/A
ICGF-GATE4-SP308	STICGF-GATE4-SP308	Emergency Generator; Onan L423DX/10390C; No. 2 fuel	20 kW	N/A	N/A	N/A	N/A
ICGF-GATE5-CEP152	STICGF-GATE5-CEP152	Emergency Generator; Perkins YB51047; No. 2 fuel	100 kW	N/A	N/A	N/A	N/A
ICGF- NH75	STICGF- NH75	Emergency Generator; John Deere 4045TF150; No. 2 fuel	62 kW	N/A	N/A	N/A	N/A
ICGF-IAA	STICGF-IAA	Emergency Generator; Perkins YB51047; No. 2 fuel	100 kW	N/A	N/A	N/A	N/A
ICGF-Kbb-125	STICGF-Kbb-125	Emergency Generator; Caterpillar 3116; No. 2 fuel	125 kW	N/A	N/A	N/A	N/A
ICGF-Kbb-20	STICGF-Kbb-20	Emergency Generator; John Deere 3029; No. 2 fuel	20 kW	N/A	N/A	N/A	N/A
ICGF-LAG110	STICGF-LAG110	Emergency Generator; Caterpillar 3304PC; No. 2 fuel	60 kW	N/A	N/A	N/A	N/A
ICGF-R4	STICGF-R4	Emergency Generator; Caterpillar 3054; No. 2 fuel	75 kW	N/A	N/A	N/A	N/A
ICGF-LF53	STICGF-LF53	Emergency Generator; No. 2 fuel	123 kW	N/A	N/A	N/A	N/A
ICPF-LF60	STICPF-LF60	Emergency Fire Pump; Cummins V-378-F2; No. 2 fuel	135 hp	N/A	N/A	N/A	N/A
ICGF-LF62	STICGF-LF62	Emergency Generator; No. 2 fuel	75 kW	N/A	N/A	N/A	N/A
ICGF-LF67	STICGF-LF67	Emergency Generator; Caterpillar C9; No. 2 fuel	300 kW	N/A	N/A	N/A	N/A
ICGF-LP100	STICGF-LP100	Emergency Generator; Perkins LJ50413; No. 2 fuel	50 kW	N/A	N/A	N/A	N/A
ICGF-LP165	STICGF-LP165	Emergency Generator; Perkins 2320/1500; No. 2 fuel	30 kW	N/A	N/A	N/A	N/A

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	Pollutants Controlled	Applicable Permit Date
ICGF-LP166	STICGF-LP166	Emergency Generator; Generac 21696; No. 2 fuel	80 kW	N/A	N/A	N/A	N/A
ICGF-LP205	STICGF-LP205	Emergency Generator; Detroit Diesel; DYNC14101-000-0-24; No. 2 fuel	410 kW	N/A	N/A	N/A	N/A
ICGF-LP209	STICGF-LP209	Emergency Generator; Detroit Diesel Series 60; No.2 fuel	265 kW	N/A	N/A	N/A	N/A
ICGF-LP 210	STICGF-LP 210	Emergency Generator; Caterpillar 3412; No. 2 fuel	600 kW	N/A	N/A	N/A	N/A
ICGF-LP212	STICGF-LP212	Emergency Generator; Detroit Diesel Series 60; No. 2 fuel	275 kW	N/A	N/A	N/A	N/A
ICGF-LP33	STICGF-LP33	Emergency Generator; No. 2 fuel	155 kW	N/A	N/A	N/A	N/A
ICGF-LP43	STICGF-LP43	Emergency Generator; No. 2 fuel	75 kW	N/A	N/A	N/A	N/A
ICGF-LP48	STICGF-LP48	Emergency Generator; Kohler GM-8.1L; Natural Gas	100 kW	N/A	N/A	N/A	N/A
ICGF-LP74	STICGF-LP74	Emergency Generator; No.2 fuel	35 kW	N/A	N/A	N/A	N/A
ICGF-LP82	STICGF-LP82	Emergency Generator; Caterpillar 3054C; No. 2 fuel	60 kW	N/A	N/A	N/A	N/A
ICGF-M51-1	STICGF-M51-1	Emergency Generator; Caterpillar 3508; No. 2 fuel	800 kW	N/A	N/A	N/A	Exemption Dated May 8, 1997
ICGF-M51-2	STICGF-M51-2	Emergency Generator; Caterpillar 3508; No. 2 fuel	800 kW	N/A	N/A	N/A	Exemption Dated May 8, 1997
ICGF-M51-3	STICGF-M51-3	Emergency Generator; Caterpillar 3512; No. 2 fuel	800 kW	N/A	N/A	N/A	N/A
ICGF-M51-chiller	STICGF-M51-chiller	Emergency Generator; Caterpillar 3508; No. 2 fuel	825 kW	N/A	N/A	N/A	N/A
ICGF-M51-GBS	STICGF-M51-GBS	Emergency Generator; Cummins NTA-855-G5; No. 2 fuel	400 kW	N/A	N/A	N/A	N/A
ICGF-N25A	STICGF-N25A	Emergency Generator; Cummins N743PG220; No. 2 fuel	199 kW	N/A	N/A	N/A	N/A

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	Pollutants Controlled	Applicable Permit Date
ICGF-N26-100	STICGF-N26-100	Emergency Generator; John Deere RE522528; No. 2 fuel	100 kW	N/A	N/A	N/A	N/A
ICGF-N26-230	STICGF-N26-230	Emergency Generator; Caterpillar 3306; No. 2 fuel	230 kW	N/A	N/A	N/A	N/A
ICGF-N26-60-1	STICGF-N26-60-1	Emergency Generator; John Deere 06BE686484; No. 2 fuel	60 kW	N/A	N/A	N/A	N/A
ICGF-N26-60-2	STICGF-N26-60-2	Emergency Generator; Detroit Diesel; No. 2 fuel	60 kW	N/A	N/A	N/A	N/A
ICGF-N12A	STICGF-N12A	Emergency Generator; John Deere 6076AF011; No. 2 fuel	180 kW	N/A	N/A	N/A	N/A
ICFG-NH139-1	STICFG-NH139-1	Emergency Generator; Caterpillar 3412; No. 2 fuel	600 kW	N/A	N/A	N/A	N/A
ICGF-NH139-2	STICGF-NH139-2	Emergency Generator; Caterpillar 3412; No. 2 fuel	600 kW	N/A	N/A	N/A	N/A
ICGF-NH139-3	STICGF-NH139-3	Emergency Generator; Caterpillar 3412; No. 2 fuel	500 kW	N/A	N/A	N/A	N/A
ICGF-NH142	STICGF-NH142	Emergency Generator; No. 2 fuel	30 kW	N/A	N/A	N/A	N/A
ICGF-NH154-310	STICGF-NH154-310	Emergency Generator; Caterpillar 3408DZ; No. 2 fuel	310 kW	N/A	N/A	N/A	N/A
ICGF-NH154-350	STICGF-NH154-350	Emergency Generator; Cummins NTA-855-G3; No. 2 fuel	350 kW	N/A	N/A	N/A	N/A
ICGF-NH19-1	STICGF-NH19-1	Emergency Generator; Caterpillar 3412; No. 2 fuel	425 kW	N/A	N/A	N/A	N/A
ICGF-NH19-2	STICGF-NH19-2	Emergency Generator; Caterpillar 3412; No. 2 fuel	425 kW	N/A	N/A	N/A	N/A
ICGF-NH19-3	STICGF-NH19-3	Emergency Generator; Caterpillar 3412; No. 2 fuel	500 kW	N/A	N/A	N/A	N/A
ICGF-NH26	STICGF-NH26	Emergency Generator; Caterpillar 3408D1; No. 2 fuel	332 kW	N/A	N/A	N/A	N/A
ICGF-NH31-275	STICGF-NH31-275	Emergency Generator; Caterpillar 3406-B-D1; No. 2 fuel	275 kW	N/A	N/A	N/A	N/A
ICGF-NH31-400	STICGF-NH31-400	Emergency Generator; Caterpillar 3406; No. 2 fuel	400 kW	N/A	N/A	N/A	N/A

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	Pollutants Controlled	Applicable Permit Date
ICGF-NH32	STICGF-NH32	Emergency Generator; Volvo TAD1641GE; No. 2 fuel	505 kW	N/A	N/A	N/A	N/A
ICGF-NH33	STICGF-NH33	Emergency Generator; Caterpillar 3465; No. 2 fuel	500 kW	N/A	N/A	N/A	N/A
ICGF-NH35	STICGF-NH35	Emergency Generator; No. 2 fuel	35 kW	N/A	N/A	N/A	N/A
ICGF-NH36	STICGF-NH36	Emergency Generator; Cummins 4BT3.9-G2; No. 2 fuel	60 kW	N/A	N/A	N/A	N/A
ICGF-NH41-E	STICGF-NH41-E	Emergency Generator; Cummins NT855G4; No. 2 fuel	150 kW	N/A	N/A	N/A	N/A
ICGF-NH41-W	STICGF-NH41-W	Emergency Generator; Perkins 1869/1800; No. 2 fuel	125 kW	N/A	N/A	N/A	N/A
ICGF-NH46	STICGF-NH46	Emergency Generator; No. 2 fuel	1,250 kW	N/A	N/A	N/A	Exemption Dated April 14, 2011
ICGF-NH74	STICGF-NH74	Emergency Generator; Perkins 2330/1500; No. 2 fuel	100 kW	N/A	N/A	N/A	N/A
ICGF-NH8-1	STICGF-NH8-1	Emergency Generator; Caterpillar 3304BD1; No. 2 fuel	125 kW	N/A	N/A	N/A	N/A
ICGF-NH8-2	STICGF-NH8-2	Emergency Generator; John Deere 6059TF001; 100 kW	100 kW	N/A	N/A	N/A	N/A
ICGF-NH8-3	STICGF-NH8-3	Emergency Generator; John Deere 6059TF001; No. 2 fuel	100 kW	N/A	N/A	N/A	N/A
ICGF-NH94-1A	STICGF-NH94-1A	Emergency Generator; Caterpillar 3516B; No.2 fuel	2,250 kW	N/A	N/A	N/A	November 23, 2011
ICGF-NH94-2A	STICGF-NH94-2A	Emergency Generator; Caterpillar 3516B; No.2 fuel	2,250 kW	N/A	N/A	N/A	November 23, 2011
ICGF-NH94-3A	STICGF-NH94-3A	Emergency Generator; Caterpillar 3516B; No.2 fuel	2,250 kW	N/A	N/A	N/A	November 23, 2011
ICGF-NH94-4A	STICGF-NH94-4A	Emergency Generator; Caterpillar 3516B; No.2 fuel	2,250 kW	N/A	N/A	N/A	November 23, 2011
ICGF-NH95	STICGF-NH95	Emergency Generator; Cummins NT-855-G4; No. 2 fuel	200 kW	N/A	N/A	N/A	N/A

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	Pollutants Controlled	Applicable Permit Date
ICGF-NM154	STICGF-NM154	Emergency Generator; No. 2 fuel	50 kW	N/A	N/A	N/A	N/A
ICGF-NM176	STICGF-NM176	Emergency Generator; Detroit Diesel 10437000; No. 2 fuel	90 kW	N/A	N/A	N/A	N/A
ICGF-NM59A	STICGF-NM59A	Emergency Generator; Caterpillar D343; No. 2 fuel	200 kW	N/A	N/A	N/A	N/A
ICGF-NM72	STICGF-NM72	Emergency Generator; Caterpillar 3208; No. 2 fuel	150 kW	N/A	N/A	N/A	N/A
ICGF-NM75	STICGF-NM75	Emergency Generator; John Deere 2625F; No. 2 fuel	35 kW	N/A	N/A	N/A	N/A
ICGF-O25	STICGF-O25	Emergency Generator; Allis Chalmers 670T; No. 2 fuel	75 kW	N/A	N/A	N/A	N/A
ICGF-O27	STICGF-O27	Emergency Generator; Caterpillar; No. 2 fuel	1000 kW	N/A	N/A	N/A	N/A
ICGF-P1-1	STICGF-P1-1	Emergency Generator; Caterpillar 3516TA; No. 2 fuel (installed 1993)	1,600 kW	N/A	N/A	N/A	February 18, 2010
ICGF-P1-2	STICGF-P1-2	Emergency Generator; Caterpillar 3516TA; No. 2 fuel (installed 1993)	1,600 kW	N/A	N/A	N/A	February 18, 2010
ICGF-P1-3	STICGF-P1-3	Emergency Generator; Caterpillar 3516TA; No. 2 fuel (installed 1993)	1,600 kW	N/A	N/A	N/A	February 18, 2010
ICGF-P1-4	STICGF-P1-4	Emergency Generator; Caterpillar 3516TA; No. 2 fuel (installed 1993)	1,600 kW	N/A	N/A	N/A	February 18, 2010
ICGF-P65/P71	STICGF-P65/P71	Emergency Generator; Generac 3285B-1263B; No. 2 fuel	125 kW	N/A	N/A	N/A	N/A
ICGF-P68	STICGF-P68	Emergency Generator; Kohler 100REOZJG; John Deere engine 4045HF275H; No. 2 fuel	100 kW	N/A	N/A	N/A	N/A
ICGF-P89	STICGF-P89	Emergency Generator; Mitsubishi Engine No. 025825; No. 2 fuel	100 kW	N/A	N/A	N/A	N/A

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	Pollutants Controlled	Applicable Permit Date
ICGF-PIER14	STICGF-PIER14	Emergency Generator; No. 2 fuel	60 kW	N/A	N/A	N/A	N/A
ICGF-Q1	STICGF-Q1	Emergency Generator; Mitsubishi Block No. 4D34-J91289; No. 2 fuel	60 kW	N/A	N/A	N/A	N/A
ICGF-Q81	STICGF-Q81	Emergency Generator; Generac SD250; No. 2 fuel	250 kW	N/A	N/A	N/A	N/A
ICGF-Q95	STICGF-Q95	Emergency Generator; Generac SD150; No. 2 fuel	150 kW	N/A	N/A	N/A	N/A
ICPF-Q95	STICPF-Q95	Emergency Fire Pump; Cummins NT-885-F4; No. 2 fuel	320 hp	N/A	N/A	N/A	N/A
ICGF-R43	STICGF-R43	Emergency Generator; Cummins 4B-3.9; No. 2 fuel	15 kW	N/A	N/A	N/A	N/A
ICGF-NM90g	STICGF-NM90g	Emergency Generator; John Deere 3029TF270	30 kW	N/A	N/A	N/A	N/A
ICGF-LP90g	STICGF-LP90g	Emergency Generator; John Deere 3029TF270D	30 kW	N/A	N/A	N/A	N/A
ICGF-SDA313A	STICGF-SDA313A	Emergency Generator; Caterpillar D125-6; No. 2 fuel	125 kW	N/A	N/A	N/A	N/A
ICGF-SDA332	STICGF-SDA332	Emergency Generator; John Deere 6090; No. 2 fuel	250 kW	N/A	N/A	N/A	N/A
ICGF-SP300	STICGF-SP300	Emergency Generator; Kohler REOZJB; John Deere engine 6068TF250	125 kW	N/A	N/A	N/A	N/A
ICGF-SP368	STICGF-SP368	Emergency Generator; Kohler 100REOZJF; John Deere engine 4045HF285I; No. 2 fuel	100 kW	N/A	N/A	N/A	N/A
ICGF-SP381	STICGF-SP381	Emergency Generator; Generac; Propane	25 kW	N/A	N/A	N/A	N/A
ICGF-SP65	STICGF-SP65	Emergency Generator; Detroit Diesel 7084-7200; No. 2 fuel	100 kW	N/A	N/A	N/A	N/A
ICGF-SP73-250	STICGF-SP73-250	Emergency Generator; Detroit Diesel Series 60; No. 2 fuel	250 kW	N/A	N/A	N/A	N/A

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	Pollutants Controlled	Applicable Permit Date
ICGF-SP73-365	STICGF-SP73-365	Emergency Generator; No. 2 fuel	365 kW	N/A	N/A	N/A	N/A
ICGF-SP77	STICGF-SP77	Emergency Generator; Basler 3SR4F3; No. 2 fuel	45 kW	N/A	N/A	N/A	N/A
ICGF-SP97	STICGF-SP97	Emergency Generator; Kohler 50REOZJD; John Deere engine 4024HF285B; No. 2 fuel	50 kW	N/A	N/A	N/A	N/A
ICGF-T26A	STICGF-T26A	Emergency Generator; Caterpillar 3306; No. 2 fuel	220 kW	N/A	N/A	N/A	N/A
ICGF-U117	STICGF-U117	Emergency Generator; Marathon Electric 3412; No. 2 fuel	473 kW	N/A	N/A	N/A	N/A
ICGF-U130	STICGF-U130	Emergency Generator; Kohler 100REOZJF; John Deere engine 4045HF285I; No. 2 fuel	100 kW	N/A	N/A	N/A	N/A
ICGF-U132-1	STICGF-U132-1	Emergency Generator; Caterpillar C27; No. 2 fuel	800 kW	N/A	N/A	N/A	N/A
ICGF-U132-2	STICGF-U132-2	Emergency Generator; Caterpillar C27; No. 2 fuel	800 kW	N/A	N/A	N/A	N/A
ICGF-U132-3	STICGF-U132-3	Emergency Generator; Caterpillar C27; No. 2 fuel	800 kW	N/A	N/A	N/A	N/A
ICGF-V117	STICGF-V117	Emergency Generator; Perkins 3054; No. 2 fuel	54 kW	N/A	N/A	N/A	N/A
ICGF-V29	STICGF-V29	Emergency Generator; Cummins 500DFEK; No. 2 fuel	500 kW	N/A	N/A	N/A	N/A
ICGF-V53-25	STICGF-V53-25	Emergency Generator; Kohler 25REZG; Natural Gas	25 kW	N/A	N/A	N/A	N/A
ICGF-V53-750	STICGF-V53-750	Emergency Generator; Caterpillar 3412; No. 2 fuel	750 kW	N/A	N/A	N/A	N/A
ICGF-V64	STICGF-V64	Emergency Generator; Allis Chalmers 21000MKII; No. 2 fuel	175 kW	N/A	N/A	N/A	N/A

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	Pollutants Controlled	Applicable Permit Date
ICGF-V66	STICGF-V66	Emergency Generator; Caterpillar 3408D1; No. 2 fuel	350 kW	N/A	N/A	N/A	N/A
ICGF-V70	STICGF-V70	Emergency Generator; Caterpillar D100; No. 2 fuel	100 kW	N/A	N/A	N/A	N/A
ICGF-V82	STICGF-V82	Emergency Generator; Cummins L423D-I/10390E; No. 2 fuel	20 kW	N/A	N/A	N/A	N/A
ICGF-W143-1	STICGF-W143-1	Emergency Generator; Caterpillar 3512; No. 2 fuel	750 kW	N/A	N/A	N/A	N/A
ICGF-W143-2	STICGF-W143-2	Emergency Generator; Caterpillar 3512; No. 2 fuel	750 kW	N/A	N/A	N/A	N/A
ICGF-W143-3	STICGF-W143-3	Generac MD750 Diesel Emergency Generator (constructed 11/2015)	750 kW	N/A	N/A	N/A	June 21, 2016
ICGF-W143-4	STICGF-W143-4	Generac MD750 Diesel Emergency Generator (constructed 11/2015)	750 kW	N/A	N/A	N/A	June 21, 2016
ICGF-W143-5	STICGF-W143-5	Generac MD750 Diesel Emergency Generator (constructed 11/2015)	750 kW	N/A	N/A	N/A	June 21, 2016
ICGF-W143-6	STICGF-W143-6	Generac MD750 Diesel Emergency Generator (constructed 11/2015)	750 kW	N/A	N/A	N/A	June 21, 2016.
ICGF-W143-238	STICGF-W143-238	Emergency Generator; Caterpillar 3512; No. 2 fuel (installed 5/2002)	1,250 kW	N/A	N/A	N/A	November 21, 2011
ICGF-W143-239	STICGF-W143-239	Emergency Generator; Caterpillar 3512; No. 2 fuel (installed 5/2002)	1,250 kW	N/A	N/A	N/A	November 21, 2011
ICGF-W143-240	STICGF-W143-240	Emergency Generator; Caterpillar 3512; No. 2 fuel (installed 5/2002)	1,250 kW	N/A	N/A	N/A	November 21, 2011
ICGF-W143-241	STICGF-W143-241	Emergency Generator; Caterpillar 3512; No. 2 fuel (installed 5/2002)	1,250 kW	N/A	N/A	N/A	November 21, 2011
ICGF-W143-62	STICGF-W143-62	Emergency Generator; No. 2 fuel	62 kW	N/A	N/A	N/A	N/A

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	Pollutants Controlled	Applicable Permit Date
ICGF-W146	STICGF-W146	Emergency Generator; Unknown; No. 2 fuel	15 kW	N/A	N/A	N/A	N/A
ICGF-W147	STICGF-W147	Emergency Generator; Caterpillar 3408; No. 2 fuel	310 kW	N/A	N/A	N/A	N/A
ICGF-W150A	STICGF-W150A	Emergency Generator; Perkins RE51225; No. 2 fuel	30 kW	N/A	N/A	N/A	N/A
ICGF-W174	STICGF-W174	Emergency Generator; No. 2 fuel	90 kW	N/A	N/A	N/A	N/A
ICGF-W313	STICGF-W313	Emergency Generator; Cummins 6BT5.9-G1; No. 2 fuel	80 kW	N/A	N/A	N/A	N/A
ICGF-W385	STICGF-W385	Emergency Generator; Kohler 250REOZJE; John Deere engine 6090HF484B; No. 2 fuel	250 kW	N/A	N/A	N/A	N/A
ICGF-W50A	STICGF-W50A	Emergency Generator; No. 2 fuel	30 kW	N/A	N/A	N/A	N/A
ICGF-X132-13	STICGF-X132-13	Emergency Generator; Caterpillar/Perkins C1.5	13 kW	N/A	N/A	N/A	N/A
ICGF-X132-800	STICGF-X132-800	Emergency Generator; Caterpillar 3412; No. 2 fuel	800 kW	N/A	N/A	N/A	N/A
ICPF-X134	STICPF-X134	Emergency Fire Pump; Caterpillar 3208; No. 2 fuel	120 hp	N/A	N/A	N/A	N/A
ICPF-X136	STICPF-X136	Emergency Fire Pump; GM Detroit Diesel Alison; No. 2 fuel	61 kW	N/A	N/A	N/A	N/A
ICGF-X137	STICGF-X137	Emergency Generator; Caterpillar 3208; No. 2 fuel	175 kW	N/A	N/A	N/A	N/A
ICGF-X16	STICGF-X16	Emergency Generator; Generac Part No. 67057; No. 2 fuel	15 kW	N/A	N/A	N/A	N/A
ICGF-Z133-75	STICGF-Z133-75	Emergency Generator; Caterpillar 3054; No. 2 fuel	75 kW	N/A	N/A	N/A	N/A
ICGF-Z133-80	STICGF-Z133-80	Emergency Generator; Cummins 6VT-5.9; No. 2 fuel	80 kW	N/A	N/A	N/A	N/A
ICGF-Z140	STICGF-Z140	Emergency Generator; Cummins 6BT5.9-G2; No. 2 fuel	100 kW	N/A	N/A	N/A	N/A

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	Pollutants Controlled	Applicable Permit Date
ICGF-Z312-D	STICGF-Z312-D	Emergency Generator; Caterpillar 3512DITA; No. 2 fuel	1,100 kW	N/A	N/A	N/A	February 18, 2010
ICGF-Z312-NG	STICGF-Z312-NG	Emergency Generator; Ford LRG425; Natural Gas	20 kW	N/A	N/A	N/A	N/A
Aerospace NESHAP Coating Operations							
PNT0-HM14		Open hanger aircraft touchup – HVLP, aerosol, hand application	N/A	N/A	N/A	N/A	N/A
PNT0-HM15		Open hanger aircraft touchup – HVLP, aerosol, hand application	N/A	N/A	N/A	N/A	N/A
PNT0-HSC2		Open hanger aircraft touchup – HVLP, aerosol, hand application	N/A	N/A	N/A	N/A	N/A
PNT0-HSC5		Open hanger aircraft touchup – HVLP, aerosol, hand application	N/A	N/A	N/A	N/A	N/A
PNT0-HSC7		Open hanger aircraft touchup – HVLP, aerosol, hand application	N/A	N/A	N/A	N/A	N/A
PNT0-HSC9		Open hanger aircraft touchup – HVLP, aerosol, hand application	N/A	N/A	N/A	N/A	N/A
PNT0-HSC11		Open hanger aircraft touchup – HVLP, aerosol, hand application	N/A	N/A	N/A	N/A	N/A
PNT0-HSC22		Open hanger aircraft touchup – HVLP, aerosol, hand application	N/A	N/A	N/A	N/A	N/A
PNT0-HSC26		Open hanger aircraft touchup – HVLP, aerosol, hand application	N/A	N/A	N/A	N/A	N/A
PNT0-HSC28		Open hanger aircraft touchup – HVLP, aerosol, hand application	N/A	N/A	N/A	N/A	N/A

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	Pollutants Controlled	Applicable Permit Date
PNT0-HSC84		Open hanger aircraft touchup – HVLP, aerosol, hand application	N/A	N/A	N/A	N/A	N/A
PNT0-LP167		Open hanger aircraft touchup – HVLP, aerosol, hand application	N/A	N/A	N/A	N/A	N/A
PNT0-MAG42/HMM774		Open hanger aircraft touchup – HVLP, aerosol, hand application	N/A	N/A	N/A	N/A	N/A
PNTS-SP300-400	STPNTS-SP300-400	Paint booth, aircraft propellers – hand application only (installed 1/2005)	0.125 gal/hr coating	N/A	N/A	N/A	November 22, 2011
PNTS-SP300-500	STPNTS-SP300-500	Paint booth, aircraft parts – HVLP spray gun, aerosol, hand application	0.375 gal/hr coating	Fabric filter		PM, PM10	November 22, 2011
PNTS-SP300-600	STPNTS-SP300-600	Paint hood, aircraft electronic assemblies – aerosol and hand application	N/A	Fabric filter	N/A	PM, PM10	N/A
PNTS-SP383-67 & PNTS-SP383- 68	STPNTS-SP383-67 & STPNTS-SP383- 68	Paint hoods (installed 1997), aircraft panels/corrosion school- HVLP spray, aerosol, and hand application	N/A	Fabric filter	N/A	PM, PM10	N/A
PNTS-V146	STPNTS-V146-S & STPNTS-V146-N	Paint booth, helicopter – HVLP spray application (installed 12/2006)	5.4 gal/hr coating	HEPA filter	N/A	PM, PM10	August 10, 2011
PNT0-V147		Open hanger aircraft touchup – HVLP, aerosol, hand application	N/A	N/A	N/A	N/A	N/A
PNT0-VAW120		Open hanger aircraft touchup – HVLP, aerosol, hand application	N/A	N/A	N/A	N/A	N/A
PNT0-VAW121		Open hanger aircraft touchup – HVLP, aerosol, hand application	N/A	N/A	N/A	N/A	N/A
PNT0-VAW123		Open hanger aircraft touchup – HVLP, aerosol, hand application	N/A	N/A	N/A	N/A	N/A

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	Pollutants Controlled	Applicable Permit Date
PNT0-VAW124		Open hanger aircraft touchup – HVLP, aerosol, hand application	N/A	N/A	N/A	N/A	N/A
PNT0-VAW125		Open hanger aircraft touchup – HVLP, aerosol, hand application	N/A	N/A	N/A	N/A	N/A
PNT0-VAW126		Open hanger aircraft touchup – HVLP, aerosol, hand application	N/A	N/A	N/A	N/A	N/A
PNT0-VRC40		Open hanger aircraft touchup – HVLP, aerosol, hand application	N/A	N/A	N/A	N/A	N/A
CLNO-GRP-A	Various	Paint gun washers - Aerospace	N/A	N/A	N/A	N/A	N/A
Ship NESHAP Coating Operations							
PNT0-A80		Pierside painting of floating cranes - spray gun, aerosol, and hand application	N/A	N/A	N/A	N/A	N/A
PNT0-CEP165A		Outdoor painting of port operation vessels - aerosol and hand application.	N/A	N/A	N/A	N/A	N/A
PNTS-CEP209	STPNTS-CEP209	Paint booth, boat parts – HVLP spray gun, aerosol, hand application	7.2 gal/hr coating	Dry filter	N/A	PM, PM10	December 14, 2011
PNT0-DIVE		Small boat painting - spray gun, aerosol, and hand application	N/A	N/A	N/A	N/A	N/A
PNT0-PIER-KTR		Pierside ship painting, contractor – spray gun and hand application	N/A	N/A	N/A	N/A	N/A
PNT0-PIER-NVY		Pierside ship painting, ships forces – hand application	N/A	N/A	N/A	N/A	N/A
PNT0-PIER- TUG		Pierside tugboat touchup painting, Moran tugs – hand application	N/A	N/A	N/A	N/A	N/A
PNT0-Q50		Pierside small boat touchup, oil recovery ops – hand application	N/A	N/A	N/A	N/A	N/A

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	Pollutants Controlled	Applicable Permit Date
PNT0-SPRUCE		Pierside submarine touchup painting – hand application	N/A	N/A	N/A	N/A	N/A
PNT0-V88		Open hanger small boat touchup – aerosol and hand application	N/A	N/A	N/A	N/A	N/A
Other Coating Operations							
PNTS-SP356	STPNTS-SP356	Paint booth, ground support equipment – HVLP spray gun, aerosol, and hand application	N/A	Fabric filter	N/A	PM, PM10	N/A
PNTS-W127	STPNTS-W127	Paint spray booth for Material Handling Equipment (MHE), equipped with HVLP spray guns	14.1 gal/hr	Fabric filters	N/A	PM, PM10	September 24, 2012
PNTS-X137	STPNTS-X137	Paint booth, currently inactive	N/A	N/A	N/A	N/A	N/A
Miscellaneous Operations							
ABRA-SP356	STABRA-SP356	Drive-in abrasive blasting room (installed 1/1987)	0.5 tons/hr	Baghouse	CDABRA-SP356A and CDABRA-SP356B	PM, PM10	November 17, 2011
ABRA-V146	STABRA-V146-1, STABRA-V146-2, STABRA-V146-3, & STABRA-V146-4	Helicopter blast booth	1,000 lbs/hr (2 nozzles - 500 lbs/hr each nozzle)	N/A	N/A	PM, PM10	August 10, 2011
DEGS-GRP1		Degreasing and parts cleaning	N/A	N/A	N/A	N/A	N/A
ENGT-SP313		Aircraft engine test cells	N/A	N/A	N/A	N/A	N/A
GSTA-GRP1		Commercial gasoline/E85 service stations	N/A	Stage 1 Vapor Recovery	N/A	VOC, HAPS	N/A
MISC-CEP209-100 & MISC-CEP209-101	STMISC-CEP209-100 & STMISC-CEP209-101	Fiberglass sanding & sawing (installed 5/2000)	0.24 lbs/hr (total) (fiberglass resin, hardener, and mesh	Fabric filters	CDMISC-CEP209-100 and CDMISC-CEP209-101	PM, PM10	December 14, 2011

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	Pollutants Controlled	Applicable Permit Date
WOOD-GRP1	Various	Woodshops with outside vent	N/A	Cyclones and/or Baghouses	N/A	PM, PM10	N/A
WOOD-PNT1		Wood NESHAP sources – hand application	≤ 1,200 gal/year	N/A	N/A	N/A	N/A

*The Size/Rated capacity and PCD efficiency is provided for informational purposes only, and is not an applicable requirement.

III. Fuel Burning Equipment Requirements

The fuel burning equipment associated with this section of the permit consists of the following emission units:

Applicable Federal Requirements	Emission Unit ID	Emission Unit Description	Size/Rated Capacity (MMBtu/hr)	Pollution Control Device (PCD) Description	Applicable Permit Date
MACT DDDDD	BOIL-P1-55	Riley P8195 (installed 1939)	82	Multicyclone	February 18, 2010
MACT DDDDD	BOIL-P1-58	Riley NB 2642 (installed 1975)	235		February 18, 2010
MACT DDDDD	BOIL-P1-59	Combustion Engineering CE3731 (installed 1941)	125	Multicyclone	February 18, 2010
MACT DDDDD	BOIL-P1-60	Combustion Engineering CE6733 (installed 1941)	125	Multicyclone	February 18, 2010
MACT DDDDD	BOIL-P1-61	Combustion Engineering CE3736 (installed 1941)	125	Multicyclone	February 18, 2010
MACT DDDDD	BOIL-P1-62	Combustion Engineering CE2848 (installed 1944)	125	Multicyclone	February 18, 2010
NSPS Db MACT DDDDD	BOIL-Z312-25	Mitsui MB200 type D (installed 7/1995)	205.8 (natural gas)	Multicyclone	February 18, 2010
			196.5 (No. 2 fuel)		
NSPS Db MACT DDDDD	BOIL-Z312-26	Mitsui MB200 type D (installed 7/1995)	205.8 (natural gas)	Multicyclone	February 18, 2010
			196.5 (No. 2 fuel)		
NSPS Db MACT DDDDD	BOIL-Z312-27	Mitsui, MB200 type D (installed 7/1995)	205.8 (natural gas)	Multicyclone	February 18, 2010
			196.5 (No. 2 fuel)		
	BOIL-GRP-NG:				
MACT DDDDD	BOIL-A39	NG-fired boiler	<0.4	N/A	N/A
MACT DDDDD	BOIL-BEN154	NG-fired boiler (installed 2/1/79)	0.5	N/A	N/A
MACT DDDDD	BOIL-BEN155	NG-fired boiler (installed 2/2011)	0.76	N/A	N/A
MACT DDDDD	BOIL-CA99	NG-fired boiler (installed 2/1/97)	0.715	N/A	N/A
MACT DDDDD	BOIL-CD7-058	NG-fired boiler	0.8	N/A	N/A
MACT DDDDD	BOIL-CD7059	NG-fired boiler	0.8	N/A	N/A
MACT DDDDD	BOIL-CD9-002	NG-fired boiler	0.232	N/A	N/A
MACT DDDDD	BOIL-CD9-003	NG-fired boiler	0.232	N/A	N/A
MACT DDDDD	BOIL-CEP178	NG-fired boiler	0.399	N/A	N/A
MACT DDDDD	BOIL-F2	NG-fired boiler (installed 1/1/93)	0.15	N/A	N/A
MACT DDDDD	BOIL-F32-1	NG-fired boiler (installed 1/1/93)	0.175	N/A	N/A
MACT DDDDD	BOIL-F32-2	NG-fired boiler (installed 1/1/93)	0.175	N/A	N/A
MACT DDDDD	BOIL-F33-E	NG-fired boiler (installed 1/1/93)	0.15	N/A	N/A
MACT DDDDD	BOIL-F33-W	NG-fired boiler (installed 1/1/93)	0.15	N/A	N/A
MACT DDDDD	BOIL-F34	NG-fired boiler (installed 1/1/93)	0.175	N/A	N/A
MACT DDDDD	BOIL-F35-E	NG-fired boiler (installed 1/1/93)	0.15	N/A	N/A
MACT DDDDD	BOIL-F35-W	NG-fired boiler (installed 1/1/93)	0.15	N/A	N/A
MACT DDDDD	BOIL-FRP12	NG-fired boiler	2.07	N/A	N/A
MACT DDDDD	BOIL-FRP14	NG-fired boiler	<0.4	N/A	N/A
MACT DDDDD	BOIL-FRP2	NG-fired boiler	<0.4	N/A	N/A
MACT DDDDD	BOIL-FRP24	NG-fired boiler	<0.4	N/A	N/A
MACT DDDDD	BOIL-G29	NG-fired boiler	0.75	N/A	N/A
MACT DDDDD	BOIL-G30-1	NG-fired boiler (installed 1/1/93)	<0.4	N/A	N/A
MACT DDDDD	BOIL-G30-2	NG-fired boiler (installed 1/1/93)	<0.4	N/A	N/A

MACT DDDDD	BOIL-G31-E	NG-fired boiler (installed 1/1/93)	0.175	N/A	N/A
MACT DDDDD	BOIL-G31-W	NG-fired boiler (installed 1/1/93)	0.175	N/A	N/A
MACT DDDDD	BOIL-G45	NG-fired boiler (installed 1/1/93)	0.175	N/A	N/A
MACT DDDDD	BOIL-G8	NG-fired boiler	0.15	N/A	N/A
MACT DDDDD	BOIL-IB-1	NG-fired boiler	1	N/A	N/A
MACT DDDDD	BOIL-IB-2	NG-fired boiler	1	N/A	N/A
MACT DDDDD	BOIL-IB-3	NG-fired boiler	1.7	N/A	N/A
MACT DDDDD	BOIL-LF59	NG-fired boiler (installed 2011)	1.633	N/A	N/A
MACT DDDDD	BOIL-LF59-1	NG-fired boiler	0.31	N/A	N/A
MACT DDDDD	BOIL-LF59-2	NG-fired boiler	0.31	N/A	N/A
MACT DDDDD	BOIL-LF60	NG-fired boiler (installed 2011)	0.668	N/A	N/A
MACT DDDDD	BOIL-LF66-1	NG-fired boiler	0.399	N/A	N/A
MACT DDDDD	BOIL-LF66-2	NG-fired boiler	0.399	N/A	N/A
MACT DDDDD	BOIL-LF67	NG-fired boiler	0.285	N/A	N/A
MACT DDDDD	BOIL-LP100-017	NG-fired boiler	0.646	N/A	N/A
MACT DDDDD	BOIL-LP166	NG-fired boiler	0.750	N/A	N/A
MACT DDDDD	BOIL-LP167-1	NG-fired boiler	1.2	N/A	N/A
MACT DDDDD	BOIL-LP167-2	NG-fired boiler	1.2	N/A	N/A
MACT DDDDD	BOIL-LP21-1	NG-fired boiler	1	N/A	N/A
MACT DDDDD	BOIL-LP21-2	NG-fired boiler	1	N/A	N/A
MACT DDDDD	BOIL-LP210-1	NG-fired boiler	0.95	N/A	N/A
MACT DDDDD	BOIL-LP210-2	NG-fired boiler	0.38	N/A	N/A
MACT DDDDD	BOIL-LP212-1	NG-fired boiler	0.9	N/A	N/A
MACT DDDDD	BOIL-LP212-2	NG-fired boiler	0.9	N/A	N/A
MACT DDDDD	BOIL-LP33-1	NG-fired boiler	0.5	N/A	N/A
MACT DDDDD	BOIL-LP33-2	NG-fired boiler	0.5	N/A	N/A
MACT DDDDD	BOIL-LP34-1	NG-fired boiler	0.75	N/A	N/A
MACT DDDDD	BOIL-LP34-2	NG-fired boiler	0.75	N/A	N/A
MACT DDDDD	BOIL-LP35	NG-fired boiler	1.5	N/A	N/A
MACT DDDDD	BOIL-LP48-1	NG-fired boiler	0.7	N/A	N/A
MACT DDDDD	BOIL-LP48-2	NG-fired boiler	0.7	N/A	N/A
MACT DDDDD	BOIL-LP49-1	NG-fired boiler	0.2	N/A	N/A
MACT DDDDD	BOIL-LP49-2	NG-fired boiler	0.2	N/A	N/A
MACT DDDDD	BOIL-LP49-3	NG-fired boiler	0.2	N/A	N/A
MACT DDDDD	BOIL-LP49-4	NG-fired boiler	0.2	N/A	N/A
MACT DDDDD	BOIL-LP50	NG-fired boiler	0.125	N/A	N/A
MACT DDDDD	BOIL-MCA600-1	NG-fired boiler (installed 3/2014)	0.582	N/A	N/A
MACT DDDDD	BOIL-MCA600-2	NG-fired boiler (installed 3/2014)	0.582	N/A	N/A
MACT DDDDD	BOIL-MCA600-3	NG-fired boiler (installed 3/2014)	2.850	N/A	N/A
MACT DDDDD	BOIL-MCA602	NG-fired boiler (installed 3/2014)	1.138	N/A	N/A
MACT DDDDD	BOIL-MCA603-1	NG-fired boiler (installed 3/2014)	0.387	N/A	N/A
MACT DDDDD	BOIL-MCA603-2	NG-fired boiler (installed 3/2014)	0.387	N/A	N/A
MACT DDDDD	BOIL-MCA603-3	NG-fired boiler (installed 3/2014)	1.138	N/A	N/A
MACT DDDDD	BOIL-MCA612-1	NG-fired boiler (installed 3/2014)	0.387	N/A	N/A
MACT DDDDD	BOIL-MCA612-2	NG-fired boiler (installed 3/2014)	0.387	N/A	N/A
MACT DDDDD	BOIL-MCA614-1	NG-fired boiler (installed 3/2014)	0.776	N/A	N/A
MACT DDDDD	BOIL-MCA614-2	NG-fired boiler (installed 3/2014)	0.776	N/A	N/A
MACT DDDDD	BOIL-MCA9-1	NG-fired boiler (installed 3/2014)	0.194	N/A	N/A
MACT DDDDD	BOIL-MCA9-2	NG-fired boiler (installed 3/2014)	0.194	N/A	N/A
MACT DDDDD	BOIL-MCE1	NG-fired boiler (installed 10/1/94)	0.6	N/A	N/A
MACT DDDDD	BOIL-N24-1	NG-fired boiler	2.5	N/A	N/A
MACT DDDDD	BOIL-N24-2	NG-fired boiler	2.5	N/A	N/A
MACT DDDDD	BOIL-N24-WH1	NG-fired boiler	1	N/A	N/A
MACT DDDDD	BOIL-N24-WH2	NG-fired boiler	1	N/A	N/A
MACT DDDDD	BOIL-NH1-1	NG-fired boiler (installed 3/2014)	2.835	N/A	N/A
MACT DDDDD	BOIL-NH1-2	NG-fired boiler (installed 3/2014)	2.835	N/A	N/A
MACT DDDDD	BOIL-NH1-3	NG-fired boiler (installed 3/2014)	2.835	N/A	N/A

MACT DDDDD	BOIL-NH12-1	NG-fired boiler (installed 3/2014)	1.327	N/A	N/A
MACT DDDDD	BOIL-NH12-2	NG-fired boiler (installed 3/2014)	1.327	N/A	N/A
MACT DDDDD	BOIL-NH12-3	NG-fired boiler (installed 3/2014)	0.292	N/A	N/A
MACT DDDDD	BOIL-NH13-1	NG-fired boiler (installed 3/2014)	1.327	N/A	N/A
MACT DDDDD	BOIL-NH13-2	NG-fired boiler (installed 3/2014)	1.327	N/A	N/A
MACT DDDDD	BOIL-NH13-3	NG-fired boiler (installed 3/2014)	0.292	N/A	N/A
MACT DDDDD	BOIL-NH139-1	NG-fired boiler (installed 3/2014)	1.327	N/A	N/A
MACT DDDDD	BOIL-NH139-2	NG-fired boiler (installed 3/2014)	1.327	N/A	N/A
MACT DDDDD	BOIL-NH141-1	NG-fired boiler	0.485	N/A	N/A
MACT DDDDD	BOIL-NH141-2	NG-fired boiler	0.485	N/A	N/A
MACT DDDDD	BOIL-NH141-3	NG-fired boiler	0.679	N/A	N/A
MACT DDDDD	BOIL-NH142-1	NG-fired boiler	0.485	N/A	N/A
MACT DDDDD	BOIL-NH142-2	NG-fired boiler	0.485	N/A	N/A
MACT DDDDD	BOIL-NH142-3	NG-fired boiler	0.679	N/A	N/A
MACT DDDDD	BOIL-NH156-1	NG-fired boiler	0.485	N/A	N/A
MACT DDDDD	BOIL-NH156-2	NG-fired boiler	0.485	N/A	N/A
MACT DDDDD	BOIL-NH156-3	NG-fired boiler	0.679	N/A	N/A
MACT DDDDD	BOIL-NH2-1	NG-fired boiler	2.835	N/A	N/A
MACT DDDDD	BOIL-NH2-2	NG-fired boiler	2.835	N/A	N/A
MACT DDDDD	BOIL-NH2-3	NG-fired boiler	2.835	N/A	N/A
MACT DDDDD	BOIL-NH3-1	NG-fired boiler	2.835	N/A	N/A
MACT DDDDD	BOIL-NH3-2	NG-fired boiler	2.835	N/A	N/A
MACT DDDDD	BOIL-NH3-3	NG-fired boiler	2.835	N/A	N/A
MACT DDDDD	BOIL-NH30-1	NG-fired boiler	1.138	N/A	N/A
MACT DDDDD	BOIL-NH30-2	NG-fired boiler	1.138	N/A	N/A
MACT DDDDD	BOIL-NH30-3	NG-fired boiler	1.52	N/A	N/A
MACT DDDDD	BOIL-NH31-1	NG-fired boiler	0.94	N/A	N/A
MACT DDDDD	BOIL-NH31-2	NG-fired boiler	0.94	N/A	N/A
MACT DDDDD	BOIL-NH31-3	NG-fired boiler	0.94	N/A	N/A
MACT DDDDD	BOIL-NH31-4	NG-fired boiler	0.94	N/A	N/A
MACT DDDDD	BOIL-NH32-1	NG-fired boiler	0.5	N/A	N/A
MACT DDDDD	BOIL-NH32-2	NG-fired boiler	0.5	N/A	N/A
MACT DDDDD	BOIL-NH33-1	NG-fired boiler	0.776	N/A	N/A
MACT DDDDD	BOIL-NH33-2	NG-fired boiler	0.776	N/A	N/A
MACT DDDDD	BOIL-NH33-3	NG-fired boiler	2.85	N/A	N/A
MACT DDDDD	BOIL-NH34	NG-fired boiler	0.499	N/A	N/A
MACT DDDDD	BOIL-NH38-001	NG-fired boiler	0.98	N/A	N/A
MACT DDDDD	BOIL-NH38-002	NG-fired boiler	0.98	N/A	N/A
MACT DDDDD	BOIL-NH4-1	NG-fired boiler	2.835	N/A	N/A
MACT DDDDD	BOIL-NH4-2	NG-fired boiler	2.835	N/A	N/A
MACT DDDDD	BOIL-NH4-3	NG-fired boiler	2.835	N/A	N/A
MACT DDDDD	BOIL-NH41-1	NG-fired boiler	0.996	N/A	N/A
MACT DDDDD	BOIL-NH41-2	NG-fired boiler	0.996	N/A	N/A
MACT DDDDD	BOIL-NH41-3	NG-fired boiler	0.996	N/A	N/A
MACT DDDDD	BOIL-NH45-1	NG-fired boiler	0.996	N/A	N/A
MACT DDDDD	BOIL-NH45-2	NG-fired boiler	0.996	N/A	N/A
MACT DDDDD	BOIL-NH45-3	NG-fired boiler	0.996	N/A	N/A
MACT DDDDD	BOIL-NH5-1	NG-fired boiler	0.996	N/A	N/A
MACT DDDDD	BOIL-NH5-2	NG-fired boiler	0.996	N/A	N/A
MACT DDDDD	BOIL-NH5-3	NG-fired boiler	0.996	N/A	N/A
MACT DDDDD	BOIL-NH95-1	NG-fired boiler	3.307	N/A	N/A
MACT DDDDD	BOIL-NH95-2	NG-fired boiler	3.307	N/A	N/A
MACT DDDDD	BOIL-NH95-3	NG-fired boiler	3.307	N/A	N/A
MACT DDDDD	BOIL-NH95-4	NG-fired boiler	0.776	N/A	N/A
MACT DDDDD	BOIL-NH95-5	NG-fired boiler	0.776	N/A	N/A
MACT DDDDD	BOIL-NM176-023	NG-fired boiler	1	N/A	N/A
MACT DDDDD	BOIL-NM37-067	NG-fired boiler	0.42	N/A	N/A

MACT DDDDD	BOIL-NM71-025	NG-fired boiler	0.966	N/A	N/A
MACT DDDDD	BOIL-O22-1	NG-fired boiler	1.2	N/A	N/A
MACT DDDDD	BOIL-O22-2	NG-fired boiler	1.2	N/A	N/A
MACT DDDDD	BOIL-O22-3	NG-fired boiler	1.2	N/A	N/A
MACT DDDDD	BOIL-SC1-1	NG-fired boiler	2	N/A	N/A
MACT DDDDD	BOIL-SC1-2	NG-fired boiler	2	N/A	N/A
MACT DDDDD	BOIL-SC1-3	NG-fired boiler	2	N/A	N/A
MACT DDDDD	BOIL-SC1-4	NG-fired boiler	2	N/A	N/A
MACT DDDDD	BOIL-SC1-5	NG-fired boiler	2	N/A	N/A
MACT DDDDD	BOIL-SC-319	NG-fired boiler	0.937	N/A	N/A
MACT DDDDD	BOIL-SC407	NG-fired boiler	0.937	N/A	N/A
MACT DDDDD	BOIL-SC413-1	NG-fired boiler	<0.4	N/A	N/A
MACT DDDDD	BOIL-SC413-2	NG-fired boiler	<0.4	N/A	N/A
MACT DDDDD	BOIL-SDA309	NG-fired boiler	0.293	N/A	N/A
MACT DDDDD	BOIL-SD313-055	NG-fired boiler	1	N/A	N/A
MACT DDDDD	BOIL-SD313-056	NG-fired boiler	1	N/A	N/A
MACT DDDDD	BOIL-SDA327-061	NG-fired boiler	<0.4	N/A	N/A
MACT DDDDD	BOIL-SDA332-040	NG-fired boiler	0.78	N/A	N/A
MACT DDDDD	BOIL-SDA333	NG-fired boiler	0.3125	N/A	N/A
MACT DDDDD	BOIL-SDA334-001	NG-fired boiler	0.84	N/A	N/A
MACT DDDDD	BOIL-SDA334-009	NG-fired boiler	0.480	N/A	N/A
MACT DDDDD	BOIL-SDA334-010	NG-fired boiler	0.480	N/A	N/A
MACT DDDDD	BOIL-SDA344-1	NG-fired boiler	0.84	N/A	N/A
MACT DDDDD	BOIL-SP10	NG-fired boiler	0.232	N/A	N/A
MACT DDDDD	BOIL-SP12	NG-fired boiler	0.797	N/A	N/A
MACT DDDDD	BOIL-SP123-1	NG-fired boiler	0.5	N/A	N/A
MACT DDDDD	BOIL-SP123-2	NG-fired boiler	0.5	N/A	N/A
MACT DDDDD	BOIL-SP123-3	NG-fired boiler	0.727	N/A	N/A
MACT DDDDD	BOIL-SP124-1	NG-fired boiler	0.285	N/A	N/A
MACT DDDDD	BOIL-SP124-2	NG-fired boiler	0.285	N/A	N/A
MACT DDDDD	BOIL-SP124-3	NG-fired boiler	0.105	N/A	N/A
MACT DDDDD	BOIL-SP124-4	NG-fired boiler	0.391	N/A	N/A
MACT DDDDD	BOIL-SP13	NG-fired boiler	0.399	N/A	N/A
MACT DDDDD	BOIL-SP132-1	NG-fired boiler	0.7	N/A	N/A
MACT DDDDD	BOIL-SP132-2	NG-fired boiler	1.262	N/A	N/A
MACT DDDDD	BOIL-SP132-3	NG-fired boiler	0.442	N/A	N/A
MACT DDDDD	BOIL-SP132-4	NG-fired boiler	2.010	N/A	N/A
MACT DDDDD	BOIL-SP17-1	NG-fired boiler	1.699	N/A	N/A
MACT DDDDD	BOIL-SP17-2	NG-fired boiler	1.699	N/A	N/A
MACT DDDDD	BOIL-SP17-3	NG-fired boiler	0.425	N/A	N/A
MACT DDDDD	BOIL-SP17-4	NG-fired boiler	0.425	N/A	N/A
MACT DDDDD	BOIL-SP233-1	NG-fired boiler	0.210	N/A	N/A
MACT DDDDD	BOIL-SP233-2	NG-fired boiler	0.210	N/A	N/A
MACT DDDDD	BOIL-SP233-3	NG-fired boiler	1.344	N/A	N/A
MACT DDDDD	BOIL-SP236	NG-fired boiler	5.073	N/A	N/A
MACT DDDDD	BOIL-SP237	NG-fired boiler	3.752	N/A	N/A
MACT DDDDD	BOIL-SP250-1	NG-fired boiler	0.31	N/A	N/A
MACT DDDDD	BOIL-SP250-2	NG-fired boiler	0.31	N/A	N/A
MACT DDDDD	BOIL-SP250-3	NG-fired boiler	0.31	N/A	N/A
MACT DDDDD	BOIL-SP250-4	NG-fired boiler	0.31	N/A	N/A
MACT DDDDD	BOIL-SP250-5	NG-fired boiler	0.31	N/A	N/A
MACT DDDDD	BOIL-SP250-6	NG-fired boiler	0.31	N/A	N/A
MACT DDDDD	BOIL-SP250-7	NG-fired boiler	0.31	N/A	N/A
MACT DDDDD	BOIL-SP250-8	NG-fired boiler	0.31	N/A	N/A
MACT DDDDD	BOIL-SP254	NG-fired boiler	3	N/A	N/A
MACT DDDDD	BOIL-SP254-2	NG-fired boiler	2.530	N/A	N/A
MACT DDDDD	BOIL-SP256	NG-fired boiler	2	N/A	N/A

MACT DDDDD	BOIL-SP256-2	NG-fired boiler	1.8	N/A	N/A
MACT DDDDD	BOIL-SP29	NG-fired boiler	7.140	N/A	N/A
MACT DDDDD	BOIL-SP296	NG-fired boiler	0.399	N/A	N/A
MACT DDDDD	BOIL-SP300-1	NG-fired boiler	2	N/A	N/A
MACT DDDDD	BOIL-SP300-2	NG-fired boiler	2	N/A	N/A
MACT DDDDD	BOIL-SP300-3	NG-fired boiler	2	N/A	N/A
MACT DDDDD	BOIL-SP300-4	NG-fired boiler	0.6	N/A	N/A
MACT DDDDD	BOIL-SP312	NG-fired boiler	0.75	N/A	N/A
MACT DDDDD	BOIL-SP313	NG-fired boiler	0.285	N/A	N/A
MACT DDDDD	BOIL-SP313-2	NG-fired boiler	0.333	N/A	N/A
MACT DDDDD	BOIL-SP35-1	NG-fired boiler	0.9	N/A	N/A
MACT DDDDD	BOIL-SP35-2	NG-fired boiler	0.9	N/A	N/A
MACT DDDDD	BOIL-SP35-3	NG-fired boiler	0.54	N/A	N/A
MACT DDDDD	BOIL-SP356-1	NG-fired boiler	2	N/A	N/A
MACT DDDDD	BOIL-SP356-2	NG-fired boiler	1.5	N/A	N/A
MACT DDDDD	BOIL-SP356-3	NG-fired boiler	2	N/A	N/A
MACT DDDDD	BOIL-SP356-4	NG-fired boiler	2.458	N/A	N/A
MACT DDDDD	BOIL-SP36-1	NG-fired boiler	0.25	N/A	N/A
MACT DDDDD	BOIL-SP36-2	NG-fired boiler	0.25	N/A	N/A
MACT DDDDD	BOIL-SP36-3	NG-fired boiler	0.25	N/A	N/A
MACT DDDDD	BOIL-SP364-1	NG-fired boiler	0.7	N/A	N/A
MACT DDDDD	BOIL-SP364-2	NG-fired boiler	0.7	N/A	N/A
MACT DDDDD	BOIL-SP364-3	NG-fired boiler	2	N/A	N/A
MACT DDDDD	BOIL-SP364-4	NG-fired boiler	0.163	N/A	N/A
MACT DDDDD	BOIL-SP364-5	NG-fired boiler	1.040	N/A	N/A
MACT DDDDD	BOIL-SP366-3	NG-fired boiler	0.010	N/A	N/A
MACT DDDDD	BOIL-SP366-4	NG-fired boiler	0.775	N/A	N/A
MACT DDDDD	BOIL-SP367-1	NG-fired boiler	0.210	N/A	N/A
MACT DDDDD	BOIL-SP367-2	NG-fired boiler	1.3	N/A	N/A
MACT DDDDD	BOIL-SP367-3	NG-fired boiler	0.15	N/A	N/A
MACT DDDDD	BOIL-SP367-4	NG-fired boiler	1.267	N/A	N/A
MACT DDDDD	BOIL-SP37-1	NG-fired boiler	0.199	N/A	N/A
MACT DDDDD	BOIL-SP37-2	NG-fired boiler	0.199	N/A	N/A
MACT DDDDD	BOIL-SP372-1	NG-fired boiler	0.285	N/A	N/A
MACT DDDDD	BOIL-SP372-2	NG-fired boiler	0.285	N/A	N/A
MACT DDDDD	BOIL-SP372-3	NG-fired boiler	0.369	N/A	N/A
MACT DDDDD	BOIL-SP381-01	NG-fired boiler	0.7	N/A	N/A
MACT DDDDD	BOIL-SP381-02	NG-fired boiler	0.7	N/A	N/A
MACT DDDDD	BOIL-SP381-03	NG-fired boiler	0.399	N/A	N/A
MACT DDDDD	BOIL-SP381-04	NG-fired boiler	0.399	N/A	N/A
MACT DDDDD	BOIL-SP381-07	NG-fired boiler	0.285	N/A	N/A
MACT DDDDD	BOIL-SP381-08	NG-fired boiler	0.285	N/A	N/A
MACT DDDDD	BOIL-SP381-13	NG-fired boiler	0.527	N/A	N/A
MACT DDDDD	BOIL-SP381-14	NG-fired boiler	3.170	N/A	N/A
MACT DDDDD	BOIL-SP383-1	NG-fired boiler	0.8	N/A	N/A
MACT DDDDD	BOIL-SP383-2	NG-fired boiler	0.8	N/A	N/A
MACT DDDDD	BOIL-SP383-3	NG-fired boiler	0.3	N/A	N/A
MACT DDDDD	BOIL-SP383-4	NG-fired boiler	0.539	N/A	N/A
MACT DDDDD	BOIL-SP40-1	NG-fired boiler	1.25	N/A	N/A
MACT DDDDD	BOIL-SP40-2	NG-fired boiler	1.25	N/A	N/A
MACT DDDDD	BOIL-SP45	NG-fired boiler	3.0	N/A	N/A
MACT DDDDD	BOIL-SP47	NG-fired boiler	0.757	N/A	N/A
MACT DDDDD	BOIL-SP48	NG-fired boiler	0.757	N/A	N/A
MACT DDDDD	BOIL-SP64	NG-fired boiler	0.757	N/A	N/A
MACT DDDDD	BOIL-SP69	NG-fired boiler	0.051	N/A	N/A
MACT DDDDD	BOIL-SP91-1	NG-fired boiler	0.6	N/A	N/A
MACT DDDDD	BOIL-SP91-2	NG-fired boiler	0.6	N/A	N/A

MACT DDDDD	BOIL-SP91-3	NG-fired boiler	1.105	N/A	N/A
MACT DDDDD	BOIL-SP91-4	NG-fired boiler	0.079	N/A	N/A
MACT DDDDD	BOIL-U238	NG-fired boiler	1.5	N/A	N/A
MACT DDDDD	BOIL-V29-1	NG-fired boiler	0.5	N/A	N/A
MACT DDDDD	BOIL-V29-2	NG-fired boiler	0.5	N/A	N/A
MACT DDDDD	BOIL-V29-3	NG-fired boiler	4.421	N/A	N/A
MACT DDDDD	BOIL-V52	NG-fired boiler	4.366	N/A	N/A
MACT DDDDD	BOIL-V53-1	NG-fired boiler	1.4	N/A	N/A
MACT DDDDD	BOIL-V61-1	NG-fired boiler	3.5	N/A	N/A
MACT DDDDD	BOIL-V61-2	NG-fired boiler	3.5	N/A	N/A
MACT DDDDD	BOIL-V70-1	NG-fired boiler	0.31	N/A	N/A
MACT DDDDD	BOIL-V70-2	NG-fired boiler	0.31	N/A	N/A
MACT DDDDD	BOIL-V70-3	NG-fired boiler	0.31	N/A	N/A
MACT DDDDD	BOIL-V71-1	NG-fired boiler	0.31	N/A	N/A
MACT DDDDD	BOIL-V71-2	NG-fired boiler	0.31	N/A	N/A
MACT DDDDD	BOIL-W5	NG-fired boiler	0.399	N/A	N/A
MACT DDDDD	BOIL-WB200-1	NG-fired boiler	0.399	N/A	N/A
MACT DDDDD	BOIL-WB200-2	NG-fired boiler	0.399	N/A	N/A
MACT DDDDD	BOIL-WB200-3	NG-fired boiler	0.399	N/A	N/A
MACT DDDDD	BOIL-X1-1	NG-fired boiler	0.99	N/A	N/A
MACT DDDDD	BOIL-X1-2	NG-fired boiler	0.99	N/A	N/A
MACT DDDDD	BOIL-X1-3	NG-fired boiler	0.99	N/A	N/A
MACT DDDDD	BOIL-X1-4	NG-fired boiler	0.99	N/A	N/A
MACT DDDDD	BOIL-X1-5	NG-fired boiler	0.99	N/A	N/A
MACT DDDDD	BOIL-X1-6	NG-fired boiler	0.99	N/A	N/A
MACT DDDDD	BOIL-X1-7	NG-fired boiler	0.99	N/A	N/A
MACT DDDDD	BOIL-X1-8	NG-fired boiler	0.99	N/A	N/A
MACT DDDDD	BOIL-X275-072	NG-fired boiler	0.21	N/A	N/A
MACT DDDDD	BOIL-X275-073	NG-fired boiler	0.21	N/A	N/A
MACT DDDDD	BOIL-Z133-1	NG-fired boiler	2	N/A	N/A
MACT DDDDD	BOIL-Z133-2	NG-fired boiler	2	N/A	N/A
MACT DDDDD	BOIL-Z133-3	NG-fired boiler	2	N/A	N/A
MACT DDDDD	BOIL-Z133-4	NG-fired boiler	2	N/A	N/A

*NOTE: Only the combined limits for the steam plant boilers and emergency generators ICGF-P1-1, ICGF-P1-2, ICGF-P1-3, and ICGF-P1-4 are included in this section. All other requirements for the P1 generators are included in Section IV.

A. Limitations

- Fuel Burning Equipment Requirements - (BOIL-Z312-25, BOIL-Z312-26, and BOIL-Z312-27) - Limitations** - Particulate Matter emissions from each natural gas/distillate oil-fired boiler (Ref. Nos. BOIL-Z312-25, BOIL-Z312-26, and BOIL-Z312-27) shall be controlled by multicyclones. The multicyclones shall be provided with adequate access for inspection and shall be in operation when the boilers are operating. An annual inspection shall be conducted by the permittee on each multicyclone to ensure structural integrity.
(9 VAC 5-80-110, 9 VAC 5-50-260, and Condition 3 of the NSR permit issued February 18, 2010)
- Fuel Burning Equipment Requirements - (BOIL-Z312-25, BOIL-Z312-26, and BOIL-Z312-27) - Limitations** - Nitrogen Oxide emissions from each natural gas/distillate oil-fired boiler (Ref. Nos. BOIL-Z312-25, BOIL-Z312-26, and BOIL-Z312-27) shall be controlled by low-NO_x burners with internal or external flue gas

recirculation. The low-NO_x burners shall be provided with adequate access for inspection and shall be in operation when the boilers are operating.

(9 VAC 5-80-110, 9 VAC 5-50-260, and Condition 4 of the NSR permit issued February 18, 2010)

3. **Fuel Burning Equipment Requirements - (BOIL-Z312-25, BOIL-Z312-26, and BOIL-Z312-27) - Limitations** - Carbon Monoxide emissions from each natural gas/distillate oil-fired boiler (Ref. Nos. BOIL-Z312-25, BOIL-Z312-26, and BOIL-Z312-27) shall be controlled by good combustion practices.
(9 VAC 5-80-110, 9 VAC 5-50-260, and Condition 5 of the NSR permit issued February 18, 2010)
4. **Fuel Burning Equipment Requirements - (BOIL-Z312-25, BOIL-Z312-26, and BOIL-Z312-27) - Limitations** - The approved fuels for boilers BOIL-Z312-25, BOIL-Z312-26, and BOIL-Z312-27 are distillate oil and natural gas. A change in the fuels may require a permit to modify and operate.
(9 VAC 5-80-110 and Condition 10 of the NSR permit issued February 18, 2010)
5. **Fuel Burning Equipment Requirements - (BOIL-P1-59, BOIL-P1-60, BOIL-P1-61, and BOIL-P1-62) - Limitations** The approved fuels for boilers BOIL-P1-59, BOIL-P1-60, BOIL-P1-61, and BOIL-P1-62 are natural gas, distillate oil, residual oil, Fuel Oil Reclaimed (FOR), Navy Special Fuel Oil (NSFO), Diesel Fuel Marine (DFM), and JP-5. A change in the fuels may require a permit to modify and operate.
(9 VAC 5-80-110 and Condition 12 of the NSR permit issued February 18, 2010)
6. **Fuel Burning Equipment Requirements - (BOIL-P1-55, and BOIL-P1-58) - Limitations** - The approved fuels for boilers BOIL-P1-55 and BOIL-P1-58 are distillate oil, residual oil, Fuel Oil Reclaimed (FOR), Navy Special Fuel Oil (NSFO), Diesel Fuel Marine (DFM), and JP-5. A change in the fuels may require a permit to modify and operate.
(9 VAC 5-80-110 and Condition 13 of the NSR permit issued February 18, 2010)
7. **Fuel Burning Equipment Requirements - (BOIL-Z312-25, BOIL-Z312-26, and BOIL-Z312-27) - Limitations** - Boilers BOIL-Z312-25, BOIL-Z312-26, and BOIL-Z312-27 shall consume no more than 10,734,000 gallons of distillate oil per year, or 1,435.0 x 10⁶ cubic feet of natural gas per year, each calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months. When both distillate oil and natural gas are consumed in the same year, consumption shall be limited by the following:

$$X = (10,734,000 \text{ gal/yr}) - ((0.00748) \times (\text{ft}^3 \text{ natural gas}))$$

$$Y = (1,435.0 \times 10^6 \text{ ft}^3/\text{yr}) - ((133.65) \times (\text{gallons distillate oil}))$$

where

X = gallons per year of distillate oil consumed

Y = cubic feet per year of natural gas consumed

(9 VAC 5-80-110 and Condition 15 of the NSR permit issued February 18, 2010)

8. **Fuel Burning Equipment Requirements - (BOIL-Z312-25, BOIL-Z312-26, and BOIL-Z312-27) - Limitations** - The distillate oil to be burned in boilers BOIL-Z312-25, BOIL-Z312-26, and BOIL-Z312-27 shall meet the specification below:

DISTILLATE OIL which meets the ASTM D396 specification for numbers 1 or 2 fuel oil

Maximum sulfur content per shipment: 0.20%
 (9 VAC 5-80-110 and Condition 16 of the NSR permit issued February 18, 2010)

9. **Fuel Burning Equipment Requirements - (BOIL-Z312-25, BOIL-Z312-26, and BOIL-Z312-27) - Limitations** - The permittee shall obtain a certification from the fuel supplier with each shipment of distillate oil. Each fuel supplier certification shall include the following:
- The name of the fuel supplier;
 - The date on which the distillate oil was received;
 - The quantity of distillate oil delivered in the shipment;
 - A statement that the distillate oil complies with the American Society for Testing and Materials specifications (ASTM D396) for number 2 fuel oil; and,
 - The maximum sulfur content of the distillate oil.
 - Fuel sampling and analysis, independent of that used for certification, as may be periodically required or conducted by DEQ may be used to determine compliance with the fuel specifications stipulated in Condition 10. Exceedance of these specifications may be considered credible evidence of the exceedance of emission limits.

(9 VAC 5-80-110, 9 VAC 5-50-410, and Condition 17 of the NSR permit issued February 18, 2010)

10. **Fuel Burning Equipment Requirements - (BOIL-P1-55 through BOIL-P1-62) - Limitations** - The permittee shall obtain a certification from the fuel supplier with each shipment of fuel used in the calculations in Conditions 16 through 20. Each fuel supplier certification shall include the name of the fuel supplier, ASTM method(s) used for fuel sampling, and a statement certifying the sulfur content of the fuel.
 (9 VAC 5-80-110 and Condition 19 of the NSR permit issued February 18, 2010)

11. **Fuel Burning Equipment Requirements - (BOIL-Z312-25, BOIL-Z312-26, and BOIL-Z312-27) - Limitations** - Emissions from the operation of boilers BOIL-Z312-25, BOIL-Z312-26, and BOIL-Z312-27 shall not exceed the limits specified below:

	<u>lb/million Btu,</u> <u>each boiler</u>	<u>lbs/hr,</u> <u>each boiler</u>	<u>tons/yr,</u> <u>combined</u>
Particulate Matter		1.3 lbs/hr	4.8 tons/yr
PM-10		1.3 lbs/hr	4.8 tons/yr
Sulfur Dioxide		40.1 lbs/hr	152.4 tons/yr
Nitrogen Oxides (as NO ₂)	0.10 lb/million Btu		74.6 tons/yr

	(30-day rolling average)	
Carbon Monoxide	20.6 lbs/hr	74.6 tons/yr
Volatile Organic Compounds	1.0 lbs/hr	3.7 tons/yr
Beryllium	0.00015 lb/hr	0.00060 ton/yr

Except for the lb/million Btu NO_x limit, these emissions are derived from the estimated overall emission contribution from operating limits. Exceedance of the operating limits may be considered credible evidence of the exceedance of emission limits. Compliance with these emission limits may be determined as stated in Condition numbers 1, 2, 3, 4, 9, 10, 21, 27, 28, and 31.

(9 VAC 5-80-110, 9 VAC 5-50-260, 9 VAC 5-50-410, and Condition 20 of the NSR permit issued February 18, 2010)

12. **Fuel Burning Equipment Requirements - (BOIL-P1-55 through BOIL-P1-62) - Limitations** - Emissions from the operation of each boiler (Ref. Nos. BOIL-P1-55 through BOIL-P1-62) shall not exceed the limits specified below:

Sulfur Dioxide	2.64 lbs/mmBtu
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These emissions are derived from the estimated overall emission contribution from operating limits. Exceedance of the operating limits may be considered credible evidence of the exceedance of emission limits. Compliance with these emission limits may be determined as stated in Condition numbers 2, 5, 6, 7, 8, and 31.

(9 VAC 5-80-110, 9 VAC 5-50-260, and Condition 22 of the NSR permit issued February 18, 2010)

13. **Fuel Burning Equipment Requirements - (BOIL-Z312-25, BOIL-Z312-26, and BOIL-Z312-27, ICGF-P1-1, ICGF-P1-2, ICGF-P1-3, ICGF-P1-4, ICGF-Z312-D, and BOIL-P1-55 through BOIL-P1-62) - Limitations** - Combined emissions from the operation of boilers BOIL-Z312-25, BOIL-Z312-26, and BOIL-Z312-27, emergency generators ICGF-P1-1, ICGF-P1-2, ICGF-P1-3, ICGF-P1-4, and ICGF-Z312-D, and boilers BOIL-P1-55 through BOIL-P1-62 shall not exceed the limits specified below:

Sulfur Dioxide (E _{SO₂})	3,106.4 tons/yr
Nitrogen Oxides (as NO ₂) (E _{NO_x})	675.8 tons/yr
Carbon Monoxide (E _{CO})	159.4 tons/yr
Beryllium (E _{Be})	0.0075 tons/yr

These emissions are derived from the estimated overall emission contribution from operating limits. Exceedance of the operating limits may be considered credible evidence of the exceedance of emission limits. Compliance with these emission limits may be determined as stated in Condition numbers 16, 17, 18, 19, 20, and 33.

(9 VAC 5-80-110, 9 VAC 5-50-260, and Condition 23 of the NSR permit issued February 18, 2010)

14. **Fuel Burning Equipment Requirements - (BOIL-Z312-25, BOIL-Z312-26, BOIL-Z312-27, ICGF-P1-1, ICGF-P1-2, ICGF-P1-3, ICGF-P1-4, ICGF-Z312-D, , and BOIL-P1-55 through BOIL-P1 -62) - Limitations** - The following symbols as used in Conditions 21, 22, 23, and 24 shall have the meanings given to them below:

Symbol	Meaning
R1	Gallons of NSFO, No. 4 fuel oil, and No. 6 fuel oil consumed in BOIL-P1-55
R2	Gallons of NSFO, No. 4 fuel oil, and No. 6 fuel oil consumed in BOIL-P1-58 and BOIL-P1-62
R3	Gallons of NSFO, No. 4 fuel oil, and No. 6 fuel oil consumed in BOIL-P1-59, BOIL-P1-60, and BOIL-P1-61
D1	Gallons of JP-5, No. 2 fuel oil, DFM, and FOR consumed in BOIL-P1-55 through BOIL-P1-62
D2	Gallons of No. 2 fuel oil consumed in BOIL-Z312-25, BOIL-Z312-26, and BOIL-Z312-27
D3	Gallons of No. 2 fuel oil consumed in emergency generators ICGF-P1-1, ICGF-P1-2, ICGF-P1-3, ICGF-P1-4, and ICGF-Z312-D
G1	Standard cubic feet of natural gas consumed in BOIL-P1-59, BOIL-P1-60, and BOIL-P1-61
G2	Standard cubic feet of natural gas consumed in BOIL-Z312-25, BOIL-Z312-26, and BOIL-Z312-27
a	Percent sulfur content by weight of JP-5
b	Percent sulfur content by weight of No. 2 fuel oil
c	Percent sulfur content by weight of DFM
d	Percent sulfur content by weight of FOR
e	Percent sulfur content by weight of NSFO
f	Percent sulfur content by weight of No. 4 fuel oil
g	Percent sulfur content by weight of No. 6 fuel oil

(9 VAC 5-80-110 and Condition 24 of the NSR permit issued February 18, 2010)

15. **Fuel Burning Equipment Requirements - (BOIL-Z312-25, BOIL-Z312-26, BOIL-Z312-27, ICGF-P1-1, ICGF-P1-2, ICGF-P1-3, ICGF-P1-4, ICGF-Z312-D, and BOIL-P1-55 through BOIL-P1-62,) - Limitations** - Using the key in Condition 16, the permittee shall calculate the total tons of NO_x emissions, equivalent (E_{NO_x}), per week, and the sum of each 52 week period as follows:

$$E_{NO_x} = (2.75 \times 10^{-5})(R1) + (3.35 \times 10^{-5})(R2) + (1.67 \times 10^{-5})(R3) + (1.00 \times 10^{-5})(D1) + (6.95 \times 10^{-6})(D2) + (2.34 \times 10^{-4})(D3) + (5.69 \times 10^{-8})(G1) + (4.16 \times 10^{-8})(G2)$$

Compliance for the 52-week period shall be demonstrated weekly by adding the total for the most recently completed week to the individual weekly totals for the preceding 51 weeks.

(9 VAC 5-80-110 and Condition 25 of the NSR permit issued February 18, 2010)

16. **Fuel Burning Equipment Requirements - (BOIL-Z312-25, BOIL-Z312-26, BOIL-Z312-27, ICGF-P1-1, ICGF-P1-2, ICGF-P1-3, ICGF-P1-4, ICGF-Z312-D, and BOIL-P1-55 through BOIL-P1-62,) - Limitations** - Using the key in Condition 16, the permittee shall calculate the total tons of SO₂ emissions, equivalent (E_{SO2}), per week, and the sum of each 52 week period as follows:

$$E_{SO2} = (7.85 \times 10^{-5})[(R1+R2+R3)_{NSFO(e)} + (R1+R2+R3)_{No.4(f)} + (R1+R2+R3)_{No.6(g)}] + (7.10 \times 10^{-5})[(D1)_{JP-5(a)} + (D1)_{No.2(b)} + (D1)_{DFM(c)} + (D1)_{FOR(d)}] + (7.10 \times 10^{-5})(D2)(b) + (7.25 \times 10^{-5})(D3)(b) + (3.00 \times 10^{-10})(G1 + G2)$$

Compliance for the 52-week period shall be demonstrated weekly by adding the total for the most recently completed week to the individual weekly totals for the preceding 51 weeks.

(9 VAC 5-80-110 and Condition 26 of the NSR permit issued February 18, 2010)

17. **Fuel Burning Equipment Requirements - (BOIL-Z312-25, BOIL-Z312-26, BOIL-Z312-27, ICGF-P1-1, ICGF-P1-2, ICGF-P1-3, ICGF-P1-4, ICGF-Z312-D, and BOIL-P1-55 through BOIL-P1-62,) - Limitations** - (BOIL-Z312-25, BOIL-Z312-26, BOIL-Z312-27, ICGF-P1-1, ICGF-P1-2, ICGF-P1-3, ICGF-P1-4, ICGF-Z312-D, and BOIL-P1-55 through BOIL-P1-62) Using the key in Condition 16, the permittee shall calculate the total tons of CO emissions, equivalent (E_{CO}), per week, and the sum of each 52 week period as follows:

$$E_{CO} = (2.50 \times 10^{-6})(R1+R2+R3+D1) + (6.95 \times 10^{-6})(D2) + (4.23 \times 10^{-5})(D3) + (2.00 \times 10^{-8})(G1) + (5.20 \times 10^{-8})(G2)$$

Compliance for the 52-week period shall be demonstrated weekly by adding the total for the most recently completed week to the individual weekly totals for the preceding 51 weeks.

(9 VAC 5-80-110 and Condition 27 of the NSR permit issued February 18, 2010)

18. **Fuel Burning Equipment Requirements - (BOIL-Z312-25, BOIL-Z312-26, BOIL-Z312-27, ICGF-P1-1, ICGF-P1-2, ICGF-P1-3, ICGF-P1-4, ICGF-Z312-D, and BOIL-P1-55 through BOIL-P1-62,) - Limitations** (BOIL-Z312-25, BOIL-Z312-26, BOIL-Z312-27, ICGF-P1-1, ICGF-P1-2, ICGF-P1-3, ICGF-P1-4, ICGF-Z312-D, and BOIL-P1-55 through BOIL-P1-62) - Using the key in Condition 16, the permittee shall calculate the total tons of Beryllium emissions, equivalent (E_{Be}), per week, and the sum of each 52 week period as follows:

$$E_{Be} = (3.02 \times 10^{-10})(R1+R2+R3) + (1.74 \times 10^{-10})(D1+D3) + (5.31 \times 10^{-11})(D2)$$

Compliance for the 52-week period shall be demonstrated weekly by adding the total for the most recently completed week to the individual weekly totals for the preceding 51 weeks.

(9 VAC 5-80-110 and Condition 28 of the NSR permit issued February 18, 2010)

19. **Fuel Burning Equipment Requirements - (BOIL-Z312-25, BOIL-Z312-26, and BOIL-Z312-27) - Limitations** - Visible emissions from boilers BOIL-Z312-25, BOIL-Z312-26, and BOIL-Z312-27 shall not exceed ten (10) percent opacity except during one six-minute period in any one hour in which visible emissions shall not exceed twenty (20) percent opacity as determined by the EPA Method 9 (reference 40 CFR 60, Appendix A). This condition applies at all times except during startup, shutdown, and malfunction. (9 VAC 5-80-110, 9 VAC 5-50-80, 9 VAC 5-50-260, 9 VAC 5-50-410, and Condition 29 of the NSR permit issued February 18, 2010)
20. **Fuel Burning Equipment Requirements - (BOIL-P1-55, and BOIL-P1-59 through BOIL-P1-62,) - Limitations** - Visible emissions from boilers BOIL-P1-55, and BOIL-P1-59 through BOIL-P1-62 shall not exceed twenty (20) percent opacity except during one six-minute period in any one hour in which visible emissions shall not exceed sixty (60) percent opacity as determined by the EPA Method 9 (reference 40 CFR 60, Appendix A). (9 VAC 5-80-110, 9 VAC 5-40-80, and Condition 32 of the NSR permit issued February 18, 2010)
21. **Fuel Burning Equipment Requirements - (BOIL-P1-58) - Limitations** - Visible emissions from boiler BOIL-P1-58 shall not exceed twenty (20) percent opacity except during one six-minute period in any one hour in which visible emissions shall not exceed thirty (30) percent opacity as determined by the EPA Method 9 (reference 40 CFR 60, Appendix A). This condition applies at all times except during startup, shutdown, and malfunction. (9 VAC 5-80-110, 9 VAC 5-50-80, and Condition 31 of the NSR permit issued February 18, 2010)
22. **Fuel Burning Equipment Requirements - (New or Existing Liquid Fuel-Fired Boilers) - MACT, Subpart DDDDD** - The permittee shall comply with the applicable limitations of 40 CFR 63, Subpart DDDDD (National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters) for each new or existing liquid fuel-fired boiler (as defined in §63.7490 and §63.7575) as follows:
- Compliance with 40 CFR 63, Subpart DDDDD shall be achieved by the dates specified in §63.7495.
 - For existing units: The permittee shall comply with the applicable emission limits (Table 2), work practice standards (Table 3), and operating limits (Table 4) in 40 CFR 63.7500. These standards apply at all time the affected unit is operating, except during periods of start up and shutdown during which time you must comply only with Table 3.
 - For new units: The permittee shall comply with the applicable emission limits (Table 1), work practice standards (Table 3), and operating limits (Table 4) in 40 CFR 63.7500. These standards apply at all time the affected unit is operating, except during periods of start up and shutdown during which time you must comply only with Table 3.
 - The permittee shall comply with the applicable general compliance requirements in §63.7505.

- e. The permittee shall comply with the applicable initial compliance requirements in §63.7510 and §63.7530.
(9 VAC 5-80-1109, 9 VAC 5-60-100, and 40 CFR 63.7495, 63.7500, 63.7505, 63.7510, and 63.7530)

23. Fuel Burning Equipment Requirements - (New and Existing Gas 1 (Natural Gas or Liquefied Petroleum Gas) -Fired Boilers) - Limitations - MACT, Subpart DDDDD -

The permittee shall comply with the applicable limitations of 40 CFR 63, Subpart DDDDD (National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters) for each new or existing gas 1-fired boiler (as defined in §63.7490 and §63.7575) as follows:

- a. Compliance with 40 CFR 63, Subpart DDDDD shall be achieved by the dates specified in §63.7495.
- b. For existing units: The permittee shall comply with the applicable work practice standards in Table 3 (one-time energy assessment) and tune-up requirements in 40 CFR 63.7500(e). Boilers and process heaters in the units designed to burn gas 1 fuels subcategory are not subject to the emission limits in Tables 1 and 2 or 11 through 13, or the operating limits in Table 4.
- c. For new units: The permittee shall comply with the applicable tune-up requirements in 40 CFR 63.7500(e). Boilers and process heaters in the units designed to burn gas 1 fuels subcategory are not subject to the emission limits in Tables 1 and 2 or 11 through 13, or the operating limits in Table 4.
- d. The permittee shall comply with the applicable general compliance requirements in §63.7505.
- e. The permittee shall comply with the applicable initial compliance requirements in §63.7510 and §63.7530.
(9 VAC 5-80-110, 9 VAC 5-60-100, and 40 CFR 63.7495, 63.7500, 63.7505, 63.7510, and 63.7530)

B. Testing and Monitoring

24. Fuel Burning Equipment Requirements - (BOIL-P1-55 through BOIL-P1-62) -

Testing and Monitoring - The permittee shall perform a monthly visual emissions observation on each boiler stack (for each boiler except BOIL-Z312-25, BOIL-Z312-26, and BOIL-Z312-27) during normal operations. If such visual observation indicates any visible emissions, the permittee shall take corrective actions to eliminate the visible emissions. If such corrective action fails to eliminate the visible emissions, the permittee shall conduct a visible emissions evaluation (VEE) using 40 CFR Part 60, Appendix A, Method 9 for six minutes. If the six-minute VEE opacity average exceeds 50% of the standard for a specific unit, the VEE for that unit shall continue for an additional 12 minutes. If any of the six-minute averages during the 18 minutes exceeds the standard for a specific unit, the VEE for that unit shall continue for one hour from initiation on the stack to determine compliance with the opacity limit. Results of the observations/VEEs shall be recorded in an operation log. Records of observations shall include the following:

The name of the observer,

The date and time of the observation,

An indication that the process was operating,

An indication of the presence or absence of visible emissions, and

Any corrective action taken to eliminate visible emissions, including the date and time the process was shut down and/or repairs were completed.

If a VEE is conducted, records shall be in accordance with Method 9 (40 CFR 60, Appendix A). The records shall be kept at the facility and made available for inspection by the DEQ for the most recent five (5) year period.
(9 VAC 5-80-110)

25. **Fuel Burning Equipment Requirements - (BOIL-Z312-25, BOIL-Z312-26, and BOIL-Z312-27) - Testing and Monitoring** - The boilers (Ref. Nos. BOIL-Z312-25, BOIL-Z312-26, and BOIL-Z312-27) shall be equipped with a continuous opacity monitor (COM) to continuously measure and record the opacity from each boiler. Each monitor shall be maintained and calibrated in accordance with 40 CFR, Part 60, §60.48b, paragraph (a). A 30-day notification prior to the demonstration of continuous monitoring system performance and subsequent notification requirements are to be submitted to the Director, Tidewater Regional Office.
(9 VAC 5-80-110, 9 VAC 5-50-410, 40 CFR 60.48b, and Condition 6 of the NSR permit issued February 18, 2010)
26. **Fuel Burning Equipment Requirements - (BOIL-Z312-25, BOIL-Z312-26, and BOIL-Z312-27) - Testing and Monitoring** - The boilers (Ref. Nos. BOIL-Z312-25, BOIL-Z312-26, and BOIL-Z312-27) shall be equipped with a continuous emission monitor (CEM) to continuously measure and record the concentration of nitrogen oxide emitted from each boiler. Each monitor shall be maintained and calibrated in accordance with 40 CFR, Part 60, §60.48b, paragraph (b), (c), (d), (e)(2), (e)(3), (f), and (g)(1). A 30-day notification prior to the demonstration of continuous monitoring system performance and subsequent notification requirements are to be submitted to the Director, Tidewater Regional Office.
(9 VAC 5-80-110, 9 VAC 5-50-410, 40 CFR 60.48b, and Condition 7 of the NSR permit issued February 18, 2010)
27. **Fuel Burning Equipment Requirements - (New and Existing Liquid Fuel-Fired Boilers) - Testing and Monitoring - MACT, Subpart DDDDD** - (New and Existing Liquid Fuel-Fired Boilers) - Testing and Monitoring - MACT, Subpart DDDDD - The permittee shall comply with the applicable testing and monitoring requirements of 40 CFR 63, Subpart DDDDD (National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters) for each new or existing liquid fuel-fired boiler (as defined in §63.7490 and §63.7575), as follows:
- The permittee shall comply with the applicable performance testing, fuel analysis, and tune-up requirements in §63.7515.
 - The permittee shall comply with the performance testing procedures in §63.7520.

- c. The permittee shall comply with the applicable fuel analysis and fuel specification requirements in §63.7521
- d. If emissions averaging is chosen as an alternative to meeting the requirements of §63.7500 for PM (or TSM), HCl, or mercury on a boiler or process heater basis, the permittee shall comply with the applicable emissions averaging requirements in §63.7522.
- e. The permittee shall comply with the applicable monitoring, installation, operation, and maintenance requirements in §63.7525.
- f. The permittee shall comply with the applicable monitoring data collection requirements in 63.7535.
- g. The permittee shall comply with the applicable continuous compliance requirements in §63.7540 and §63.7541 (if applicable).

(9 VAC 5-80-110, 9 VAC 5-60-100, and 40 CFR 63.7505, 63.7510, 63.7520, 63.7521, 63.7522, 63.7525, 63.7530, 63.7535, 63.7540, and 63.7541)

28. Fuel Burning Equipment Requirements - (New and Existing Gas 1 (Natural Gas or Liquefied Petroleum Gas) -Fired Boilers) - Testing and Monitoring - MACT, Subpart DDDDD - (New and Existing Gas 1 (Natural Gas or Liquefied Petroleum Gas) - Fired Boilers) - Testing and Monitoring - MACT, Subpart DDDDD - The permittee shall comply with the applicable testing and monitoring requirements of 40 CFR 63, Subpart DDDDD (National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters) for each new or existing gas 1-fired boiler (as defined in §63.7490 and §63.7575) as follows:

- a. The permittee shall comply with the applicable tune-up requirements in §63.7515.
- b. The permittee shall comply with the applicable continuous compliance requirements in §63.7540. Boilers and process heaters in the units designed to burn gas 1 fuels subcategory with a heat input capacity of less than or equal to 5 million Btu per hour must complete a tune-up every 5 years as specified in §63.7540(a)(12). Boilers and process heaters in the units designed to burn gas 1 fuels subcategory with a heat input capacity greater than 5 million Btu per hour and less than 10 million Btu per hour must complete a tune-up every 2 years as specified in §63.7540(a)(11). Boilers and process heaters in the units designed to burn gas 1 fuels subcategory with a heat input capacity of 10 million Btu per hour or greater must complete a tune-up each year, as specified in §63.7540(a)(10).

(9 VAC 5-80-110, 9 VAC 5-60-100, 40 CFR 63.7515, and 63.7540)

C. Notifications, Recordkeeping, and Reporting

- 29. Fuel Burning Equipment Requirements - (BOIL-Z312-25, BOIL-Z312-26, BOIL-Z312-27, ICGF-P1-1, ICGF-P1-2, ICGF-P1-3, ICGF-P1-4, ICGF-Z312-D, and BOIL-P1-55 through BOIL-P1-62) - Notifications, Recordkeeping, and Reporting -** The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Director, TRO Regional Office. These records shall include, but are not limited to:

- a. The monthly throughput of natural gas and the daily throughput of distillate oil for the boilers (Ref. Nos. BOIL-Z312-25, BOIL-Z312-26, and BOIL-Z312-27).
- b. The annual throughput of natural gas and distillate oil, each, for the boilers (Ref. Nos. BOIL-Z312-25, BOIL-Z312-26, and BOIL-Z312-27), calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
- c. All fuel supplier certifications.
- d. All emission calculations referenced in Conditions 17, 18, 19, and 20.
- e. Records of annual multicyclone inspections referenced in Condition 1.
- f. Records required in accordance with 40 CFR, Part 60, §60.49b, paragraphs (d), (f), and (g).
- g. Records of visual emissions observations, visible emissions evaluations, and any corrective action taken, as required by Condition 26.

These records shall be available on site for inspection by the DEQ and shall be current for the most recent (5) years.

(9 VAC 5-80-110 and Condition 33 of the NSR permit issued February 18, 2010)

30. **Fuel Burning Equipment Requirements - (BOIL-Z312-25, BOIL-Z312-26, and BOIL-Z312-27) - Notifications, Recordkeeping, and Reporting** - The permittee shall submit fuel quality reports to the Tidewater Regional Office within 30 days after the end of each semi-annual period for the fuel burned in the boilers (Ref. Nos. BOIL-Z312-25, BOIL-Z312-26, and BOIL-Z312-27). If no shipments of distillate oil were received during the semi-annual period, the semi-annual report shall consist of the dates included in the semi-annual period and a statement that no oil was received during the semi-annual period. If distillate oil was received during the semi-annual period, the reports shall include:

- a. Dates included in the semi-annual period,
- b. A copy of all fuel supplier certifications for all shipments of distillate oil received during the semi-annual period or a semi-annual summary from each fuel supplier that includes the information specified in Condition 11 for each shipment of distillate oil, and
- c. A signed statement from the owner or operator of the facility that the fuel supplier certifications or summaries of fuel supplier certifications represent all of the distillate oil burned or received at the facility.

One copy of the semi-annual report shall be submitted to:

Associate Director
Office of Air Enforcement and Compliance Assistance (3AP20)
U. S. Environmental Protection Agency
Region III
1650 Arch Street

Philadelphia, PA 19103-2029

(9 VAC 5-80-110, 9 VAC 5-50-410, and Condition 34 of the NSR permit issued February 18, 2010)

31. **Fuel Burning Equipment Requirements - (BOIL-Z312-25, BOIL-Z312-26, BOIL-Z312-27, ICGF-P1-1, ICGF-P1-2, ICGF-P1-3, ICGF-P1-4, ICGF-Z312-D, and BOIL-P1-55 through BOIL-P1-62) - Notifications, Recordkeeping, and Reporting** - The permittee shall submit reports of weekly NO₂, SO₂, CO, and Beryllium emissions, equivalent (E_{NO2}, E_{SO2}, E_{CO}, and E_{Be}), to the Director, Tidewater Regional Office, within 30 days after the end of each semi-annual calendar period. Upon generation of 52 weeks of oil purchase and sulfur content data, the permittee shall also include in the semi-annual reports the total NO₂, SO₂, CO, and Beryllium emissions, equivalent, per 52 week period, as recalculated each week of the semi-annual period (calculated by addition of the total of the most recently completed week with the preceding 51 weeks). The details of the reports are to be arranged with the Director, Tidewater Regional Office.
(9 VAC 5-80-110 and Condition 35 of the NSR permit issued February 18, 2010)
32. **Fuel Burning Equipment Requirements - (BOIL-Z312-25, BOIL-Z312-26, and BOIL-Z312-27) - Notifications, Recordkeeping, and Reporting** - The permittee shall submit quarterly excess emission reports for the boilers (Ref. Nos. BOIL-Z312-25, BOIL-Z312-26, and BOIL-Z312-27) in accordance with the procedures of 40 CFR, Part 60, §60.49b, paragraph (h), for the following:
- All six-minute periods when opacity exceeds 10%.
 - All thirty-day rolling averages when NO_x exceeds 0.10 lb/million Btu.

The reports shall be submitted to the Director, Tidewater Regional Office, within 30 days after the end of each calendar quarter, beginning within 120 days of completion of the initial opacity and nitrogen oxides continuous emission monitor performance tests.

The reports shall include, but are not limited to:

- The magnitude of excess emissions computed in accordance with §60.13(h), any conversion factor(s) used, and the date and time of commencement and completion of each time period of excess emissions;
- The process operating time during the reporting period;
- Specific identification of each period of excess emissions that occurs during startups, shutdowns, and malfunctions of the process, the nature and cause of any malfunction (if known), the corrective action taken or preventative measures adopted;
- The date and time identifying each period during which the continuous monitoring systems were inoperative except for zero and span checks and the nature of the system repairs or adjustments; and

When no excess emissions have occurred or the continuous monitoring systems have not been inoperative, repaired, or adjusted, such information shall be stated in the report.

(9 VAC 5-80-110, 9 VAC 5-50-410, and Condition 36 of the NSR permit issued February 18, 2010)

33. **Fuel Burning Equipment Requirements - (BOIL-Z312-25, BOIL-Z312-26, and BOIL-Z312-27) - Notifications, Recordkeeping, and Reporting** - The permittee shall submit quarterly NO_x emission reports for the boilers (Ref. Nos. BOIL-Z312-25, BOIL-Z312-26, and BOIL-Z312-27) in accordance with the procedures of 40 CFR, Part 60, §60.49b, paragraph (i). The reports shall be submitted to the Director, Tidewater Regional Office, within 30 days after the end of each calendar quarter, beginning within 120 days of completion of the initial nitrogen oxides continuous emission monitor performance test. The reports shall include the following information as specified in 40 CFR, Part 60, §60.49b, paragraph (g):
- a. Calendar date;
 - b. The average hourly NO_x emission rates (expressed as NO₂) (ng/J or lb/MMBtu heat input) measured or predicted;
 - c. The 30-day average NO_x emission rates (ng/J or lb/MMBtu heat input) calculated at the end of each steam generating unit operating day from the measured or predicted hourly nitrogen oxide emission rates for the preceding 30 steam generating unit operating days;
 - d. Identification of the steam generating unit operating days when the calculated 30-day average NO_x emission rates are in excess of the NO_x emissions standards under §60.44b, with the reasons for such excess emissions as well as a description of corrective actions taken;
 - e. Identification of the steam generating unit operating days for which pollutant data have not been obtained, including reasons for not obtaining sufficient data and a description of corrective actions taken;
 - f. Identification of the times when emission data have been excluded from the calculation of average emission rates and the reasons for excluding data;
 - g. Identification of "F" factor used for calculations, method of determination, and type of fuel combusted;
 - h. Identification of the times when the pollutant concentration exceeded full span of the CEMS; and
 - i. Description of any modifications to the CEMS that could affect the ability of the CEMS to comply with Performance Specification 2 or 3.

(9 VAC 5-80-110, 9 VAC 5-50-410, and Condition 37 of the NSR permit issued February 18, 2010)

34. **Fuel Burning Equipment Requirements - (New and Existing Liquid Fuel-Fired Boilers) - Notifications, Recordkeeping, and Reporting - MACT, Subpart DDDDD** - The permittee shall comply with the applicable notification, recordkeeping, and reporting requirements of 40 CFR 63, Subpart DDDDD (National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters) for each new or existing liquid fuel-fired boiler (as defined in §63.7490 and §63.7575), as follows:

- a. The permittee shall comply with the applicable notification requirements in §63.7545.
- b. The permittee shall comply with the applicable reporting requirements in §63.7550.
- c. The permittee shall comply with the applicable recordkeeping requirements in §63.7555 and §63.7560.

(9 VAC 5-80-110, 9 VAC 5-60-100, and 40 CFR 63.7545, 63.7550, 63.7555, and 63.7560)

35. Fuel Burning Equipment Requirements - (New and Existing Gas 1 (Natural Gas or Liquefied Petroleum Gas) -Fired Boilers) - Notifications, Recordkeeping, and Reporting - MACT, Subpart DDDDD - The permittee shall comply with the applicable notification, recordkeeping, and reporting requirements of 40 CFR 63, Subpart DDDDD (National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters) for each new or existing gas 1-fired boiler (as defined in §63.7490 and §63.7575), as follows:

- a. The permittee shall comply with the applicable notification requirements in §63.7545.
- b. The permittee shall comply with the applicable reporting requirements in §63.7550.
- c. The permittee shall comply with the applicable recordkeeping requirements in §63.7555 and §63.7560.

(9 VAC 5-80-110, 9 VAC 5-60-100, and 40 CFR 63.7545, 63.7550, 63.7555, and 63.7560)

IV. Internal Combustion Engine (Generators/Fire Pumps) Requirements

The internal combustion engines associated with this section of the permit consist of the following emission units:

*NOTE: Please see Section III for additional requirements for emergency generators ICGF-P1-1 through P1-4 and ICGF-Z312-D.

Applicable Federal Requirement(s)	Emission Unit ID	Date of Manufacture	Date of Installation (if known)	Rated Capacity	Status Under MACT ZZZZ
MACT ZZZZ	ICGF-A128	12/17/1974	N/A	45 kW	EER ≤ 500 hp
MACT ZZZZ	ICGF-A48	2001	October 2003	60 kW	EER ≤ 500 hp
MACT ZZZZ	ICGF-A81	1967	N/A	100 kW	EER ≤ 500 hp
MACT ZZZZ	ICGF-B30	2004	N/A	230 kW	EER ≤ 500 hp
MACT ZZZZ	ICGF-BEN154	7/27/1984	N/A	15 kW	EER ≤ 500 hp
MACT ZZZZ	ICGF-C9	7/30/1993	N/A	60 kW	EER ≤ 500 hp
MACT ZZZZ	ICGF-CA10	9/24/2001	N/A	40 kW	EER ≤ 500 hp
MACT ZZZZ	ICGF-CA482-1	< 2004	N/A	50 kW	EER ≤ 500 hp
MACT ZZZZ	ICGF-CA482-2	< 2004	N/A	60 kW	EER ≤ 500 hp
MACT ZZZZ NSPS IIII	ICGF-CA6	2012	June 2012	100 kW	NER ≤ 500 hp
MACT ZZZZ	ICGF-CD13-100	March 1998	N/A	100 kW	EER ≤ 500 hp
MACT ZZZZ (comply w/ NSPS IIII) NSPS IIII	ICGF-CD13-350	February 2009	July 2010	350 kW	NER ≤ 500 hp
MACT ZZZZ	ICGF-CD2	< 2004	N/A	180 kW	EER ≤ 500 hp
MACT ZZZZ	ICGF-CD3	< 2004	N/A	90 kW	EER ≤ 500 hp
MACT ZZZZ	ICGF-CD7-100	< 2004	N/A	100 kW	EER ≤ 500 hp
MACT ZZZZ	ICGF-CD7-50	1993	N/A	50 kW	EER ≤ 500 hp
MACT ZZZZ	ICGF-CEP113-200	2005	N/A	200 kW	EER ≤ 500 hp
MACT ZZZZ	ICGF-CEP113-30	1985	N/A	30 kW	EER ≤ 500 hp
MACT ZZZZ	ICGF-CEP151	11/10/05	N/A	30 kW	EER ≤ 500 hp
None*	ICGF-CEP156-1000	10/10/91	N/A	1000 kW	EER > 500 hp
MACT ZZZZ	ICGF-CEP156-65	2001	N/A	65 kW	EER ≤ 500 hp
MACT ZZZZ	ICPF-CEP158	< 2004	N/A	99 hp	EER ≤ 500 hp
MACT ZZZZ (comply w/ NSPS IIII) NSPS IIII	ICGF-CEP160	2006	N/A	20 kW	NER ≤ 500 hp
MACT ZZZZ NSPS JJJJ	ICGF-CEP161	June 2009	N/A	33 kW	NER ≤ 500 hp
MACT ZZZZ NSPS IIII	ICGF-CEP167	2012	June 2012	60 kW	NER ≤ 500 hp
MACT ZZZZ	ICGF-CEP183	< 2004	N/A	38 kW	EER ≤ 500 hp
MACT ZZZZ (comply w/ NSPS IIII) NSPS IIII	ICGF-CEP186	2009	July 2010	150 kW	NER ≤ 500 hp
MACT ZZZZ	ICPF-CEP187	December 1992	N/A	306 hp	EER ≤ 500 hp
MACT ZZZZ	ICGF-CEP209	4/3/1998	N/A	125 kW	EER ≤ 500 hp
MACT ZZZZ	ICGF-CEP4	1992	N/A	150 kW	EER ≤ 500 hp
MACT ZZZZ NSPS IIII	ICGF-CEP9	2012	June 2012	250 kW	NER ≤ 500 hp

Applicable Federal Requirement(s)	Emission Unit ID	Date of Manufacture	Date of Installation (if known)	Rated Capacity	Status Under MACT ZZZZ
MACT ZZZZ (initial notification only)**	ICGF-D29	2004	N/A	800 kW	NER > 500 hp
MACT ZZZZ	ICGF-GATE2-E2	5/4/2004	12/1/2004	100 kW	EER ≤ 500 hp
MACT ZZZZ (comply w/ NSPS IIII) NSPS IIII	ICGF-NM149	5/1/2007	N/A	60 kW	NER ≤ 500 hp
MACT ZZZZ	ICGF-GATE3-U89	1986	N/A	20 kW	EER ≤ 500 hp
MACT ZZZZ	ICGF-GATE4-SP308	1986	N/A	20 kW	EER ≤ 500 hp
MACT ZZZZ	ICGF-GATE5-CEP152	1984	N/A	100 kW	EER ≤ 500 hp
MACT ZZZZ	ICGF-NH75	October 2005	N/A	62 kW	EER ≤ 500 hp
MACT ZZZZ	ICGF-IAA	2005	N/A	100 kW	EER ≤ 500 hp
MACT ZZZZ (comply w/ NSPS IIII) NSPS IIII	ICGF-Kbb-125	2009	2010	125 kW	NER ≤ 500 hp
MACT ZZZZ (comply w/ NSPS IIII) NSPS IIII	ICGF-Kbb-20	6/1/06	N/A	20 kW	NER ≤ 500 hp
MACT ZZZZ	ICGF-LAG110	< 2004	N/A	60 kW	EER ≤ 500 hp
MACT ZZZZ	ICGF-R4	9/22/1995	N/A	75 kW	EER ≤ 500 hp
MACT ZZZZ	ICGF-LF53	< 2004	N/A	123 kW	EER ≤ 500 hp
MACT ZZZZ	ICPF-LF60	March 1974	N/A	135 hp	EER ≤ 500 hp
MACT ZZZZ	ICGF-LF62	< 2004	N/A	75 kW	EER ≤ 500 hp
MACT ZZZZ NSPS IIII	ICGF-LF67	2009	2010	300 kW	NER ≤ 500 hp
MACT ZZZZ	ICGF-LP100	1998	N/A	50 kW	EER ≤ 500 hp
MACT ZZZZ	ICGF-LP165	1983	N/A	30 kW	EER ≤ 500 hp
MACT ZZZZ	ICGF-LP166	< 2004	N/A	80 kW	EER ≤ 500 hp
MACT ZZZZ (initial notification only)**	ICGF-LP205	< 2004	N/A	410 kW	NER > 500 hp
MACT ZZZZ	ICGF-LP209	12/1/2001	N/A	265 kW	EER ≤ 500 hp
None*	ICGF-LP210	1999	N/A	600 kW	EER > 500 hp
MACT ZZZZ	ICGF-LP212	7/1/2000	N/A	275 kW	EER ≤ 500 hp
MACT ZZZZ	ICGF-LP33	< 2004	12/13/2001	155 kW	EER ≤ 500 hp
MACT ZZZZ	ICGF-LP43	< 2004	N/A	75 kW	EER ≤ 500 hp
MACT ZZZZ	ICGF-LP48	8/1/2004	N/A	100 kW	EER ≤ 500 hp
MACT ZZZZ	ICGF-LP74	< 2004	N/A	35 kW	EER ≤ 500 hp
MACT ZZZZ (comply w/ NSPS IIII) NSPS IIII	ICGF-LP82	2007	N/A	60 kW	NER ≤ 500 hp
None*	ICGF-M51-1	1/3/1992	N/A	800 kW	EER > 500 hp
None*	ICGF-M51-2	3/12/1993	N/A	800 kW	EER > 500 hp
None*	ICGF-M51-3	3/12/1993	N/A	800 kW	EER > 500 hp
None*	ICGF-M51-chiller	3/8/1993	N/A	825 kW	EER > 500 hp
MACT ZZZZ (initial notification only)**	ICGF-M51-GBS	1/20/2004	N/A	400 kW	NER > 500 hp
MACT ZZZZ	ICGF-N25A	4/28/1969	N/A	199 kW	EER ≤ 500 hp
MACT ZZZZ (comply w/ NSPS IIII) NSPS IIII	ICGF-N26-100	8/1/2006	N/A	100 kW	NER ≤ 500 hp

Applicable Federal Requirement(s)	Emission Unit ID	Date of Manufacture	Date of Installation (if known)	Rated Capacity	Status Under MACT ZZZZ
MACT ZZZZ	ICGF-N26-230	2004	N/A	230 kW	EER ≤ 500 hp
MACT ZZZZ	ICGF-N26-60-1	1/17/1986	N/A	60 kW	EER ≤ 500 hp
MACT ZZZZ	ICGF-N26-60-2	1994	N/A	60 kW	EER ≤ 500 hp
MACT ZZZZ	ICGF-NH12A	8/22/1992	N/A	180 kW	EER ≤ 500 hp
MACT ZZZZ (initial notification only)**	ICGF-NH139-1	2004	N/A	600 kW	NER > 500 hp
MACT ZZZZ (initial notification only)**	ICGF-NH139-2	2004	N/A	600 kW	NER > 500 hp
None*	ICGF-NH139-3	10/10/1988	N/A	500 kW	EER > 500 hp
MACT ZZZZ	ICGF-NH142	< 2004	N/A	30 kW	EER ≤ 500 hp
MACT ZZZZ	ICGF-NH154-310	10/31/1985	N/A	310 kW	EER ≤ 500 hp
MACT ZZZZ (comply w/ NSPS IIII) NSPS IIII	ICGF-NH154-350	2010	1/12/2011	350 kW	NER ≤ 500 hp
None*	ICGF-NH19-1	12/16/1988	N/A	425 kW	EER > 500 hp
None*	ICGF-NH19-2	12/15/1988	N/A	425 kW	EER > 500 hp
None*	ICGF-NH19-3	1997	N/A	500 kW	EER > 500 hp
MACT ZZZZ	ICGF-NH26	10/31/1985	N/A	332 kW	EER ≤ 500 hp
MACT ZZZZ	ICGF-NH31-275	12/19/1988	N/A	275 kW	EER ≤ 500 hp
MACT ZZZZ (initial notification only)**	ICGF-NH31-400	2004	N/A	400 kW	NER > 500 hp
MACT ZZZZ (initial notification only)** NSPS IIII	ICGF-NH32	7/1/2007	N/A	505 kW	NER > 500 hp
MACT ZZZZ (initial notification only)**	ICGF-NH33	2005	10/1/2006	500 kW	NER > 500 hp
MACT ZZZZ	ICGF-NH35	< 2004	N/A	35 kW	EER ≤ 500 hp
MACT ZZZZ	ICGF-NH36	10/19/2002	N/A	60 kW	EER ≤ 500 hp
MACT ZZZZ	ICGF-NH41-E	10/1/1987	N/A	150 kW	EER ≤ 500 hp
MACT ZZZZ	ICGF-NH41-W	1998	N/A	125 kW	EER ≤ 500 hp
MACT ZZZZ (initial notification only)** NSPS IIII	ICGF-NH46	12/31/2010	September 2011	1250 kW	NER > 500 hp
MACT ZZZZ	ICGF-NH74	1983	N/A	100 kW	EER ≤ 500 hp
MACT ZZZZ	ICGF-NH8-1	7/6/1993	N/A	125 kW	EER ≤ 500 hp
MACT ZZZZ	ICGF-NH8-2	7/24/1992	N/A	100 kW	EER ≤ 500 hp
MACT ZZZZ	ICGF-NH8-3	7/24/1992	N/A	100 kW	EER ≤ 500 hp
MACT ZZZZ NSPS IIII	ICGF-NH94-1A	2008	3/8/2010	2250 kW	NER > 500 hp
MACT ZZZZ NSPS IIII	ICGF-NH94-2A	2008	8/25/2010	2250 kW	NER > 500 hp
MACT ZZZZ NSPS IIII	ICGF-NH94-3A	2008	12/8/2009	2250 kW	NER > 500 hp
MACT ZZZZ NSPS IIII	ICGF-NH94-4A	2008	4/27/2010	2250 kW	NER > 500 hp
MACT ZZZZ	ICGF-NH95	9/1/1990	N/A	200 kW	EER ≤ 500 hp
MACT ZZZZ	ICGF-NM154	< 2004	N/A	50 kW	EER ≤ 500 hp
MACT ZZZZ	ICGF-NM176	< 2004	N/A	90 kW	EER ≤ 500 hp
MACT ZZZZ	ICGF-NM59A	< 2004	N/A	200 kW	EER ≤ 500 hp

Applicable Federal Requirement(s)	Emission Unit ID	Date of Manufacture	Date of Installation (if known)	Rated Capacity	Status Under MACT ZZZZ
MACT ZZZZ	ICGF-NM72	10/24/1986	N/A	150 kW	EER ≤ 500 hp
MACT ZZZZ	ICGF-NM75	2/1/2005	N/A	35 kW	EER ≤ 500 hp
MACT ZZZZ	ICGF-O25	1985	N/A	75 kW	EER ≤ 500 hp
MACT ZZZZ (initial notification only)** NSPS IIII	ICGF-O27	2008	December 2009	1000 kW	NER > 500 hp
MACT ZZZZ	ICGF-P1-1	1993	1993	1600 kW	EER > 500 hp
MACT ZZZZ	ICGF-P1-2	1993	1993	1600 kW	EER > 500 hp
MACT ZZZZ	ICGF-P1-3	1993	1993	1600 kW	EER > 500 hp
MACT ZZZZ	ICGF-P1-4	1993	1993	1600 kW	EER > 500 hp
MACT ZZZZ	ICGF-P65/P71	1992	N/A	125 kW	EER ≤ 500 hp
MACT ZZZZ NSPS IIII	ICGF-P68	2006	N/A	100 kW	NER ≤ 500 hp
MACT ZZZZ	ICGF-P89	5/4/2004	N/A	100 kW	EER ≤ 500 hp
MACT ZZZZ	ICGF-PIER14	< 2004	N/A	60 kW	EER ≤ 500 hp
MACT ZZZZ	ICGF-Q1	4/27/2004	N/A	60 kW	EER ≤ 500 hp
MACT ZZZZ (comply w/ NSPS IIII) NSPS IIII	ICGF-Q81	2009	July 2010	250 kW	NER ≤ 500 hp
MACT ZZZZ (comply w/ NSPS IIII) NSPS IIII	ICGF-Q95	2009	July 2010	150 kW	NER ≤ 500 hp
MACT ZZZZ	ICPF-Q95	< 2004	N/A	320 hp	EER ≤ 500 hp
MACT ZZZZ	ICGF-R43	7/27/1984	N/A	15 kW	EER ≤ 500 hp
MACT ZZZZ (comply w/ NSPS IIII) NSPS IIII	ICGF-NM90g	12/1/2007	N/A	30 kW	NER ≤ 500 hp
MACT ZZZZ (comply w/ NSPS IIII) NSPS IIII	ICGF-LP90g	12/1/2007	N/A	30 kW	NER ≤ 500 hp
MACT ZZZZ (comply w/ NSPS IIII) NSPS IIII	ICGF-SDA313A	2008	December 2009	125 kW	NER ≤ 500 hp
MACT ZZZZ (comply w/ NSPS IIII) NSPS IIII	ICGF-SDA332	1/9/2008	N/A	250 kW	NER ≤ 500 hp
MACT ZZZZ	ICGF-SP300	December 2003	N/A	125 kW	EER ≤ 500 hp
MACT ZZZZ NSPS IIII	ICGF-SP368	2012	June 2012	100 kW	NER ≤ 500 hp
MACT ZZZZ	ICGF-SP381	11/1/1991	N/A	25 kW	EER ≤ 500 hp
MACT ZZZZ	ICGF-SP65	< 2004	N/A	100 kW	EER ≤ 500 hp
MACT ZZZZ	ICGF-SP73-250	12/1/2001	N/A	250 kW	EER ≤ 500 hp
MACT ZZZZ	ICGF-SP73-365	2002	N/A	365 kW	EER ≤ 500 hp
MACT ZZZZ	ICGF-SP77	< 2004	N/A	45 kW	EER ≤ 500 hp
MACT ZZZZ NSPS IIII	ICGF-SP97	February 2011	February 2012	50 kW	NER ≤ 500 hp
MACT ZZZZ	ICGF-T26A	7/7/1986	N/A	220 kW	EER ≤ 500 hp
None*	ICGF-U117	10/16/1986	N/A	473 kW	EER > 500 hp

Applicable Federal Requirement(s)	Emission Unit ID	Date of Manufacture	Date of Installation (if known)	Rated Capacity	Status Under MACT ZZZZ
MACT ZZZZ NSPS IIII	ICGF-U130	2012	June 2012	100 kW	NER ≤ 500 hp
MACT ZZZZ NSPS IIII	ICGF-U132-1	10/14/2013	N/A	800 kW	NER > 500 hp
MACT ZZZZ NSPS IIII	ICGF-U132-2	10/14/2013	N/A	800 kW	NER > 500 hp
MACT ZZZZ NSPS IIII	ICGF-U132-3	10/14/2013	N/A	800 kW	NER > 500 hp
MACT ZZZZ NSPS IIII	ICGF-V29		2/1/2014	500 kW	NER > 500 hp
MACT ZZZZ (comply w/ NSPS JJJJ) NSPS JJJJ	ICGF-V53-25	2010	March 2011	25 kW	NER ≤ 500 hp
MACT ZZZZ (initial notification only)**	ICGF-V53-750	2002	N/A	750 kW	NER > 500 hp
MACT ZZZZ	ICGF-V64	< 2004	N/A	175 kW	EER ≤ 500 hp
MACT ZZZZ	ICGF-V66	1996	N/A	350 kW	EER ≤ 500 hp
MACT ZZZZ NSPS IIII	ICGF-V70	2009	N/A	100 kW	NER ≤ 500 hp
MACT ZZZZ	ICGF-V82	2/1/1989	N/A	20 kW	EER ≤ 500 hp
MACT ZZZZ (comply w/ NSPS IIII) NSPS IIII	ICGF-V117	12/15/06	N/A	54 kW	NER ≤ 500 hp
None*	ICGF-W143-1	1984	N/A	750 kW	EER > 500 hp
None*	ICGF-W143-2	1984	N/A	750 kW	EER > 500 hp
MACT ZZZZ NSPS IIII	ICGF-W143-3	2015	1/16/2016	750 kW	NER > 500 hp
MACT ZZZZ NSPS IIII	ICGF-W143-4	2015	1/16/2016	750 kW	NER > 500 hp
MACT ZZZZ NSPS IIII	ICGF-W143-5	2015	1/16/2016	750 kW	NER > 500 hp
MACT ZZZZ NSPS IIII	ICGF-W143-6	2015	1/16/2016	750 kW	NER > 500 hp
None*	ICGF-W143-238	2001	5/8/2002	1250 kW	EER > 500 hp
None*	ICGF-W143-239	2001	5/8/2002	1250 kW	EER > 500 hp
None*	ICGF-W143-240	2001	5/8/2002	1250 kW	EER > 500 hp
None*	ICGF-W143-241	2001	5/8/2002	1250 kW	EER > 500 hp
MACT ZZZZ	ICGF-W143-62	< 2004	N/A	62 kW	EER ≤ 500 hp
MACT ZZZZ	ICGF-W146	< 2004	N/A	15 kW	EER ≤ 500 hp
MACT ZZZZ	ICGF-W147	October 1981	N/A	310 kW	EER ≤ 500 hp
MACT ZZZZ	ICGF-W150A	2005	N/A	30 kW	EER ≤ 500 hp
MACT ZZZZ	ICGF-W174	< 2004	N/A	90 kW	EER ≤ 500 hp
MACT ZZZZ	ICGF-W313	3/19/1991	N/A	80 kW	EER ≤ 500 hp
MACT ZZZZ NSPS IIII	ICGF-W385	2012	June 2012	250 kW	NER ≤ 500 hp
MACT ZZZZ	ICGF-W50A	< 2004	N/A	30 kW	EER ≤ 500 hp
MACT ZZZZ (comply w/ NSPS IIII) NSPS IIII	ICGF-X132-13	2006	N/A	13 kW	NER ≤ 500 hp

Applicable Federal Requirement(s)	Emission Unit ID	Date of Manufacture	Date of Installation (if known)	Rated Capacity	Status Under MACT ZZZZ
MACT ZZZZ (initial notification only)**	ICGF-X132-800	2002	N/A	800 kW	NER > 500 hp
MACT ZZZZ	ICPF-X134	February 1989	N/A	120 hp	EER ≤ 500 hp
MACT ZZZZ	ICPF-X136	< 2004	N/A	61 kW	EER ≤ 500 hp
MACT ZZZZ	ICGF-X137	5/5/1995	N/A	175 kW	EER ≤ 500 hp
MACT ZZZZ	ICGF-X16	< 2004	N/A	15 kW	EER ≤ 500 hp
MACT ZZZZ	ICGF-Z133-75	7/15/1994	N/A	75 kW	EER ≤ 500 hp
MACT ZZZZ	ICGF-Z133-80	12/10/1987	N/A	80 kW	EER ≤ 500 hp
MACT ZZZZ	ICGF-Z140	1994	N/A	100 kW	EER ≤ 500 hp
None*	ICGF-Z312-D	10/21/1994	N/A	1100 kW	EER > 500 hp
MACT ZZZZ (comply w/ NSPS JJJJ; however, NSPS JJJJ does not apply)	ICGF-Z312-NG	8/4/2005	TBD	20 kW	NER ≤ 500 hp

EER = Existing Emergency RICE

NER = New Emergency RICE

* Existing emergency stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions that do not operate or are not contractually obligated to be available for more than 15 hours per calendar year for the purposes specified in §63.6640(f)(2)(ii) and (iii) do not have to meet the requirements of 40 CFR 63, Subpart ZZZZ or 40 CFR 63, Subpart A, including initial notification requirements. However, emergency stationary RICE must operate according to the conditions in 40 CFR 63.6640(f)(1) through (3) to be considered “emergency” under this subpart (please see Condition 66).

** New emergency stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions that do not operate or are not contractually obligated to be available for more than 15 hours per calendar year for the purposes specified in §63.6640(f)(2)(ii) and (iii) do not have to meet the requirements of 40 CFR 63, Subpart ZZZZ or 40 CFR 63, Subpart A, except for the initial notification requirements of 40 CFR 63.6645(f). However, emergency stationary RICE must operate according to the conditions in 40 CFR 63.6640(f)(1) through (3) to be considered “emergency” under this subpart (please see Condition 65).

A. Limitations

36. **Internal Combustion Engine Requirements (ICGF-P1-1, ICGF-P1-2, ICGF-P1-3, ICGF-P1-4, and ICGF-Z312-D) - Limitations** - Emergency generators ICGF-P1-1, ICGF-P1-2, ICGF-P1-3, ICGF-P1-4, and ICGF-Z312-D shall be used ONLY for providing power at the location during interruption of service from the normal power supplier and for periodic testing. The operation of each emergency generator shall not exceed 500 hours per year, including periodic equipment maintenance checks, operational training, and the Pennsylvania New Jersey Maryland Interconnection, LLC Emergency Load Response Program (PJM ELRP) declared emergencies, calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the

preceding 11 months. Other than PJM's ELRP, the emergency generators shall not operate voluntarily for the purpose of peak-shaving, demand response or as part of any other interruptible power supply arrangement with a power provider, or other market participant or system operator, without first receiving permission from DEQ. Only the emergency generators identified as ICGF-P1-1, ICGF-P1-2, ICGF-P1-3, and ICGF-P1-4 shall participate in the Pennsylvania New Jersey Maryland Interconnection, LLC Emergency Load Response Program (PJM ELRP).

(9 VAC 5-80-110 and Condition 8 of the NSR permit issued February 18, 2010)

37. **Internal Combustion Engine Requirements (ICGF-P1-1, ICGF-P1-2, ICGF-P1-3, ICGF-P1-4, and ICGF-Z312-D) - Limitations** - The approved fuel for emergency generators ICGF-P1-1, ICGF-P1-2, ICGF-P1-3, ICGF-P1-4, and ICGF-Z312-D is distillate oil. A change in the fuel may require a permit to modify and operate.
(9 VAC 5-80-110 and Condition 9 of the NSR permit issued February 18, 2010)

38. **Internal Combustion Engine Requirements (ICGF-P1-1, ICGF-P1-2, ICGF-P1-3, ICGF-P1-4, and ICGF-Z312-D) - Limitations** - The distillate oil to be burned in emergency generators ICGF-P1-1, ICGF-P1-2, ICGF-P1-3, ICGF-P1-4, and ICGF-Z312-D27 shall meet the specification below:

DISTILLATE OIL which meets the ASTM D396 specification for numbers 1 or 2 fuel oil

Maximum sulfur content per shipment: 0.20%

(9 VAC 5-80-110 and Condition 16 of the NSR permit issued February 18, 2010)

39. **Internal Combustion Engine Requirements (ICGF-P1-1, ICGF-P1-2, ICGF-P1-3, ICGF-P1-4, and ICGF-Z312-D) - Limitations** - The permittee shall obtain a certification from the fuel supplier with each shipment of distillate oil. Each fuel supplier certification shall include the following:
- The name of the fuel supplier;
 - The date on which the distillate oil was received;
 - The quantity of distillate oil delivered in the shipment;
 - A statement that the distillate oil complies with the American Society for Testing and Materials specifications (ASTM D396) for number 2 fuel oil; and,
 - The maximum sulfur content of the distillate oil.
 - Fuel sampling and analysis, independent of that used for certification, as may be periodically required or conducted by DEQ may be used to determine compliance with the fuel specifications stipulated in Condition number 40. Exceedance of these specifications may be considered credible evidence of the exceedance of emission limits.

(9 VAC 5-80-110 and Condition 17 of the NSR permit issued February 18, 2010)

40. **Internal Combustion Engine Requirements (ICGF-P1-1, ICGF-P1-2, ICGF-P1-3, ICGF-P1-4, and ICGF-Z312-D) - Limitations** - Emissions from the operation of emergency generators ICGF-P1-1, ICGF-P1-2, ICGF-P1-3, ICGF-P1-4, and ICGF-Z312-D shall not exceed the limits specified below:

	<u>lbs/hr, each generator</u>	<u>tons/yr, combined</u>
Particulate Matter	0.8 lbs/hr	1.0 tons/yr
PM-10	0.8 lbs/hr	1.0 tons/yr
Sulfur Dioxide	3.2 lbs/hr	4.0 tons/yr
Nitrogen Oxides (as NO ₂)	51.4 lbs/hr	64.3 tons/yr
Carbon Monoxide	9.3 lbs/hr	11.7 tons/yr
Volatile Organic Compounds	1.6 lbs/hr	2.0 tons/yr

These emissions are derived from the estimated overall emission contribution from operating limits. Exceedance of the operating limits may be considered credible evidence of the exceedance of emission limits. Compliance with these emission limits may be determined as stated in Condition numbers 38, 39, 40, 43, 44, and 70.

(9 VAC 5-80-110 and Condition 21 of the NSR permit issued February 18, 2010)

41. **Internal Combustion Engine Requirements (ICGF-Z312-D) - Limitations** - Visible emissions from emergency generator ICGF-Z312-D shall not exceed ten (10) percent opacity except during one six-minute period in any one hour in which visible emissions shall not exceed twenty (20) percent opacity as determined by the EPA Method 9 (reference 40 CFR 60, Appendix A). This condition applies at all times except during startup, shutdown, and malfunction.

(9 VAC 5-80-110 and Condition 30 of the NSR permit issued February 18, 2010)

42. **Internal Combustion Engine Requirements (ICGF-P1-1, ICGF-P1-2, ICGF-P1-3, and ICGF-P1-4) - Limitations** - Visible emissions from emergency generators ICGF-P1-1, ICGF-P1-2, ICGF-P1-3, and ICGF-P1-4 shall not exceed twenty (20) percent opacity except during one six-minute period in any one hour in which visible emissions shall not exceed thirty (30) percent opacity as determined by the EPA Method 9 (reference 40 CFR 60, Appendix A). This condition applies at all times except during startup, shutdown, and malfunction.

(9 VAC 5-80-110 and Condition 31 of the NSR permit issued February 18, 2010)

43. **Internal Combustion Engine Requirements (ICGF-NH94-1A, ICGF-NH94-2A, ICGF-NH94-3A, and ICGF-NH94-4A) - Limitations** - Emergency generators ICGF-NH94-1A, ICGF-NH94-2A, ICGF-NH94-3A, and ICGF-NH94-4A are to be used only for providing power at the location during interruption of service from the normal power supplier, periodic maintenance testing, operational training, and Pennsylvania New Jersey Maryland Interconnection, LLC (PJM) Emergency Load Response Program (ELRP) declared emergencies. Other than participation in the PJM ELRP, the emergency generators shall not operate voluntarily for the purpose of peak-shaving, demand response, or as part of any other interruptible power supply arrangement with a power provider, other market participant, or system operator, without first receiving permission from the DEQ.

(9 VAC 5-80-110 and Condition 3 of the NSR permit issued November 23, 2011)

44. **Internal Combustion Engine Requirements (ICGF-NH94-1A, ICGF-NH94-2A, ICGF-NH94-3A, and ICGF-NH94-4A) - Limitations** - The approved fuel for each emergency generator (Ref. Nos. ICGF-NH94-1A, ICGF-NH94-2A, ICGF-NH94-3A, and ICGF-NH94-4A) is distillate oil. A change in the fuel may require a permit to modify and operate.
(9 VAC 5-80-110 and Condition 4 of the NSR permit issued November 23, 2011)

45. **Internal Combustion Engine Requirements (ICGF-NH94-1A, ICGF-NH94-2A, ICGF-NH94-3A, and ICGF-NH94-4A) - Limitations** - Emergency generators ICGF-NH94-1A, ICGF-NH94-2A, ICGF-NH94-3A, and ICGF-NH94-4A, combined, shall consume no more than 269,000 gallons of distillate oil per year, calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months
(9 VAC 5-80-110 and Condition 5 of the NSR permit issued November 23, 2011)

46. **Internal Combustion Engine Requirements (ICGF-NH94-1A, ICGF-NH94-2A, ICGF-NH94-3A, and ICGF-NH94-4A) - Limitations** - The distillate oil for emergency generators ICGF-NH94-1A, ICGF-NH94-2A, ICGF-NH94-3A, and ICGF-NH94-4A shall meet the specifications below:

DISTILLATE OIL which meets the ASTM D396 specification for numbers 1 or 2 fuel oil:

Maximum sulfur content per shipment (beginning October 1, 2010): 0.0015 %

(9 VAC 5-80-110 and Condition 6 of the NSR permit issued November 23, 2011)

47. **Internal Combustion Engine Requirements (ICGF-NH94-1A, ICGF-NH94-2A, ICGF-NH94-3A, and ICGF-NH94-4A) - Limitations** - The permittee shall obtain a certification from the fuel supplier with each shipment of distillate oil for use in emergency generators ICGF-NH94-1A, ICGF-NH94-2A, ICGF-NH94-3A, and ICGF-NH94-4A. Each fuel supplier certification shall include the following:

- a. The name of the fuel supplier;
- b. The date on which the distillate oil was received;
- c. The quantity of distillate oil delivered in the shipment;
- d. A statement that the distillate oil complies with the American Society for Testing and Materials specifications (ASTM D396) for numbers 1 or 2 fuel oil; and
- e. The maximum sulfur content of the distillate oil.

Fuel sampling and analysis, independent of that used for certification, as may be periodically required or conducted by DEQ may be used to determine compliance with the fuel specifications stipulated in Condition number 48. Exceedance of these specifications may be considered credible evidence of the exceedance of emission limits.
(9 VAC 5-80-110 and Condition 7 of the NSR permit issued November 23, 2011)

48. **Internal Combustion Engine Requirements (ICGF-NH94-1A, ICGF-NH94-2A, ICGF-NH94-3A, and ICGF-NH94-4A) - Limitations** - Emissions from the operation of emergency generators ICGF-NH94-1A, ICGF-NH94-2A, ICGF-NH94-3A, and ICGF-NH94-4A shall not exceed the limits specified below:

	<u>Each</u>	<u>Combined</u>
Particulate Matter (PM)	0.5 lbs/hr	0.5 tons/yr
PM-10	0.5 lbs/hr	0.5 tons/yr
Sulfur Dioxide	1.1 lbs/hr	0.9 tons/yr
Nitrogen Oxides (as NO ₂)	45.6 lbs/hr	39.3 tons/yr
Carbon Monoxide	9.3 lbs/hr	8.0 tons/yr
Volatile Organic Compounds	1.0 lbs/hr	0.8 tons/yr

These emissions are derived from the estimated overall emission contribution from operating limits. Exceedance of the operating limits may be considered credible evidence of the exceedance of emission limits. Compliance with these emission limits may be determined as stated in Condition numbers 45, 46, 47, 48, 49, 51, and 70. (9 VAC 5-80-110 and Condition 8 of the NSR permit issued November 23, 2011)

49. **Internal Combustion Engine Requirements (ICGF-NH94-1A, ICGF-NH94-2A, ICGF-NH94-3A, and ICGF-NH94-4A) - Limitations** - Visible emissions from each emergency generator (Ref. Nos. ICGF-NH94-1A, ICGF-NH94-2A, ICGF-NH94-3A, and ICGF-NH94-4A) shall not exceed 20 percent opacity except during one six-minute period in any one hour in which visible emissions shall not exceed 30 percent opacity as determined by the EPA Method 9 (reference 40 CFR 60, Appendix A). This condition applies at all times except during startup, shutdown, and malfunction. (9 VAC 5-80-110 and Condition 9 of the NSR permit issued November 23, 2011)

50. **Internal Combustion Engine Requirements (ICGF-CEP156-1000, ICGF-D29, ICGF-LP210, ICGF-M51-1, ICGF-M51-2, ICGF-M51-3, ICGF-M51-chiller, ICGF-NH139-1, ICGF-NH139-2, ICGF-NH139-3, ICGF-NH19-3, ICGF-NH32, ICGF-NH33, ICGF-NH46, ICGF-O27, ICGF-W143-1, ICGF-W143-2, ICGF-V53-750, and ICGF-X132-800) - Limitations** - Visible emissions from the stack of each engine generator set (Emission Units ICGF-CEP156-1000, ICGF-D29, ICGF-LP210, ICGF-M51-1, ICGF-M51-2, ICGF-M51-3, ICGF-M51-chiller, ICGF-NH139-1, ICGF-NH139-2, ICGF-NH139-3, ICGF-NH19-3, ICGF-NH32, ICGF-NH33, ICGF-NH46, ICGF-O27, ICGF-W143-1, ICGF-W143-2, ICGF-V53-750, and ICGF-X132-800) shall not exceed 20 percent opacity, except for one six-minute period in any one hour of not more than 30 percent opacity, as determined by EPA Method 9 (reference 40 CFR 60, Appendix A). (9 VAC 5-50-80 and 9 VAC 5-80-110)

51. Internal Combustion Engine Requirements (ICGF-CEP209) - Limitations -

Emergency generator ICGF-CEP209 shall not operate more than 500 hours per year, calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.

(9 VAC 5-80-110 and Condition 7 of the NSR permit issued December 14, 2011)

52. Internal Combustion Engine Requirements ((ICGF-W143-238 through ICGF-W143-241)- Limitations -

Each emergency generator (Ref. Nos. ICGF-W143-238, ICGF-W143-239, ICGF-W143-240, and ICGF-W143-241) shall not operate more than 450 hours per year, calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.

(9 VAC 5-80-110 and Condition 3 of the NSR permit issued November 21, 2011)

53. Internal Combustion Engine Requirements (ICGF-CEP209 and ICGF-W143-238 through ICGF-W143-241) - Limitations -

The approved fuel for emergency generators ICGF-CEP209 and ICGF-W143-238 through ICGF-W143-241 is distillate oil. A change in the fuel may require a permit to modify and operate.

(9 VAC 5-80-110, Condition 4 of the NSR permit issued November 21, 2011, and Condition 8 of the NSR permit issued December 14, 2011)

54. Internal Combustion Engine Requirements (ICGF-CEP209 and ICGF-W143-238 through ICGF-W143-241) - Limitations -

The distillate oil for emergency generators ICGF-CEP209 and ICGF-W143-238 through ICGF-W143-241 shall meet the specifications below

DISTILLATE OIL which meets the ASTM D-396 specification for numbers 1 or 2 fuel oil:

Maximum sulfur content per shipment: 0.5%

(9 VAC 5-80-110, Condition 5 of the NSR permit issued November 21, 2011, and Condition 9 of the NSR permit issued December 14, 2011)

55. Internal Combustion Engine Requirements (ICGF-CEP209 and ICGF-W143-238 through ICGF-W143-241) - Limitations - The permittee shall obtain a certification from the fuel supplier with each shipment of distillate oil for use in emergency generators ICGF-CEP209 and ICGF-W143-238 through ICGF-W143-241. Each fuel supplier certification shall include the following:

- a. The name of the fuel supplier;
- b. The date on which the distillate oil was received;
- c. The volume of distillate oil delivered in the shipment; and,
- d. A statement that the distillate oil complies with the American Society for Testing and Materials specifications D-396 for numbers 1 or 2 fuel oil.

(9 VAC 5-80-110, Condition 6 of the NSR permit issued November 21, 2011, and Condition 10 of the NSR permit issued December 14, 2011)

56. Internal Combustion Engine Requirements (ICGF-CEP209) - Limitations - Emissions from the operation of diesel emergency generator ICGF-CEP209 shall not exceed the limits specified below:

Nitrogen Oxides (as NO ₂)	5.0 lbs/hr	1.3 tons/yr
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These emissions are derived from the estimated overall emission contribution from operating limits. Exceedance of the operating limits may be considered credible evidence of the exceedance of emission limits. Compliance with these emission limits may be determined as stated in Condition numbers 53, 55, 56, 57, and 70.

(9 VAC 5-80-110 and Condition 13 of the NSR permit issued December 14, 2011)

57. Internal Combustion Engine Requirements (ICGF-W143-238 through ICGF-W143-241) - Limitations - Emissions from the operation of emergency generators Ref. Nos. ICGF-W143-238, ICGF-W143-239, ICGF-W143-240, and ICGF-W143-241 shall not exceed the limits specified below:

	<u>Each</u>	<u>Combined</u>
Particulate Matter (PM)	0.9 lbs/hr	0.8 tons/yr
PM-10	0.7 lbs/hr	0.7 tons/yr
Sulfur Dioxide	6.5 lbs/hr	5.8 tons/yr
Nitrogen Oxides (as NO ₂)	41.0 lbs/hr	36.9 tons/yr
Carbon Monoxide	10.8 lbs/hr	9.8 tons/yr
Volatile Organic Compounds	1.3 lbs/hr	1.2 tons/yr

These emissions are derived from the estimated overall emission contribution from operating limits. Exceedance of the operating limits may be considered credible evidence of the exceedance of emission limits. Compliance with these emission limits may be determined as stated in Conditions 54 through 57, 61, and 70.

(9 VAC 5-80-110 and Condition 7 of the NSR permit issued November 21, 2011)

58. **Internal Combustion Engine Requirements (ICGF-CEP209) - Limitations** - Visible emissions from diesel emergency generator ICGF-CEP209 shall not exceed 15 percent opacity except during one six-minute period in any one hour in which visible emissions shall not exceed 20 percent opacity as determined by the EPA Method 9 (reference 40 CFR 60, Appendix A). This condition applies at all times except during startup, shutdown, and malfunction.
(9 VAC 5-80-110 and Condition 16 of the NSR permit issued December 14, 2011)
59. **Internal Combustion Engine Requirements (ICGF-W143-238 through ICGF-W143-241) - Limitations** - Visible emissions from each emergency generator (Ref. Nos. ICGF-W143-238, ICGF-W143-239, ICGF-W143-240, and ICGF-W143-241) shall not exceed 10 percent opacity except during one six-minute period in any one hour in which visible emissions shall not exceed 20 percent opacity as determined by the EPA Method 9 (reference 40 CFR 60, Appendix A). This condition applies at all times except during startup, shutdown, and malfunction.
(9 VAC 5-80-110 and Condition 8 of the NSR permit issued November 21, 2011)
60. **Internal Combustion Engine Requirements (ICGF-W143-3 through ICGF-W143-6) - Limitations** - Emissions from the four (4) diesel emergency generators (Ref. No's. ICGF-W143-3, ICGF-W143-4, ICGF-W143-5, and ICGF-W143-6) shall be controlled by the following:
- a. Nitrogen Oxides (NO_x) emissions from the four (4) diesel emergency generators (No's. ICGF-W143-3, ICGF-W143-4, ICGF-W143-5, and ICGF-W143-6) shall be controlled by turbocharged engines and charged air coolers. The permittee shall maintain documentation that demonstrates the control devices have been installed on each of the four (4) diesel emergency generators.
(9 VAC 5-80-110 and Condition 1 of the NSR permit issued June 21, 2016)
61. **Internal Combustion Engine Requirements (ICGF-W143-3 through ICGF-W143-6) - Limitations** - Visible emissions and nitrogen oxide (NO_x) emissions shall be controlled by the use of good operating practices and performing appropriate maintenance in accordance with the manufacturer recommendations. In addition, the permittee may only change those settings that are permitted by the manufacturer and do not increase air emissions.
(9 VAC 5-80-110 and Condition 2 of the NSR permit issued June 21, 2016)
62. **Internal Combustion Engine Requirements (ICGF-W143-3 through ICGF-W143-6) - Limitations** - Each of the four (4) diesel emergency generators (Ref. No's. ICGF-W143-3, ICGF-W143-4, ICGF-W143-5, and ICGF-W143-6) shall be equipped with a non-resettable hour meter to monitor the operating hours. The non-resettable hour meter used to continuously measure the hours of operation for each of the four (4) diesel emergency generators shall be observed by the owner at the start time and the stop time each time any of the four (4) diesel emergency generators is operated. The owner shall

keep a log of these observations. The log shall include the name of the observer, the date and time of the observations, and the start/stop hour meter readings.

Each monitoring device shall be installed, maintained, calibrated (as appropriate) and operated in accordance with approved procedures which shall include, as a minimum, the manufacturer's written requirements or recommendations. Each monitoring device shall be provided with adequate access for inspection and shall be in operation when any of the four (4) diesel emergency generators (Ref. No's. ICGF-W143-3, ICGF-W143-4, ICGF-W143-5, and ICGF-W143-6) are operating.

(9 VAC 5-80-110 and Condition 3 of the NSR permit issued June 21, 2016)

63. Internal Combustion Engine Requirements ICGF-W143-3 through ICGF-W143-6) -

Limitations -: The permittee shall operate and maintain each engine-generator set (Ref. No ICGF-W143-3, ICGF-W143-4, ICGF-W143-5, and ICGF-W143-6) and control device according to the manufacturer's written instructions or procedures developed by the permittee that are approved by the engine manufacturer. In addition, the permittee may only change those settings that are permitted by the manufacturer and do not increase air emissions.

(9 VAC 5-80-110 and Condition 4 of the NSR permit issued June 21, 2016)

64. Internal Combustion Engine Requirements (ICGF-W143-3 through ICGF-W143-6)

- Limitations - The four (4) 750 kW diesel emergency generators (Ref. No. ICGF-W143-3, ICGF-W-143-4, ICGF-W143-5, and ICGF-W143-6) shall only be operated in the following modes:

- a. In situations that arises from sudden and reasonably unforeseeable events where the primary energy or power source is disrupted or disconnected due to conditions beyond the control of an owner or operator of a facility including:
 - i. A failure of the electrical grid;
 - ii. On-site disaster or equipment failure; or
 - iii. Public service emergencies such as flood, fire, natural disaster, or severe weather conditions.
- b. For participation in an ISO-declared emergency, where an ISO emergency is:
 - i. An abnormal system condition requiring manual or automatic action to maintain system frequency, to prevent loss of firm load, equipment damage, or tripping of system elements that could adversely affect the reliability of an electric system or the safety of persons or property;
 - ii. Capacity deficiency or capacity excess conditions;
 - iii. A fuel shortage requiring departure from normal operating procedures in order to minimize the use of such scarce fuel;

- iv. Abnormal natural events or man-made threats that would require conservative operations to posture the system in a more reliable state; or
 - v. An abnormal event external to the ISO service territory that may require ISO action.
- c. For periodic maintenance, testing, and operational training.

When changing from Emergency Power Generation to Non-Emergency (Alternate) Power Generation, the permittee shall submit appropriate documentation to the Department of Environmental Quality (DEQ), and receive DEQ approval for the change in the method of operation of the four (4) diesel emergency generators (Ref. No's. ICGF-W143-3, ICGF-W143-4, ICGF-W143-5, and ICGF-W143-6) to ensure that the facility remains in compliance with the appropriate permitting requirements. Total emissions for any 12 month period, calculated as the sum of all emissions from operations under the scenarios above, shall not exceed the limits stated in Condition 68.

(9 VAC 5-80-110 and Condition 5 of the NSR permit issued June 21, 2016)

65. Internal Combustion Engine Requirements (ICGF-W143-3 through ICGF-W143-6) -

Limitations - Each of the four (4) 750 kW diesel emergency generators (Ref. Nos. ICGF-W143-3, ICGF-W-143-4, ICGF-W-143-5, ICGF-W-143-6) shall not operate more than 300 hours per year, calculated monthly, as the sum of each consecutive twelve month period. Compliance for the consecutive twelve month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding eleven months.

(9 VAC 5-80-110 and Condition 6 of the NSR permit issued June 21, 2016)

66. Internal Combustion Engine Requirements (ICGF-W143-3 through ICGF-W143-6) -

Limitations - The approved fuel for the four (4) 750 kW emergency generators (Unit Ref. No's. ICGF-W143-3, ICGF-W143-4, ICGF-W143-5, and ICGF-W143-6) is diesel fuel. The diesel fuel shall meet the ASTM D975 specification for S15 diesel fuel oil with a maximum sulfur content per shipment of 0.0015%. A change in the fuel may require a new or amended permit.

(9 VAC 5-80-110 and Condition 7 of the NSR permit issued June 21, 2016)

67. Internal Combustion Engine Requirements (ICGF-W143-3 through ICGF-W143-6) -

Limitations - The permittee shall obtain a certification from the fuel supplier with each shipment of S15 diesel fuel. Each fuel supplier certification shall include the following:

- a. The name of the fuel supplier;
- b. The date on which the diesel fuel was received;
- c. The quantity of diesel fuel delivered in the shipment;
- d. A statement that the diesel fuel complies with the American Society for Testing and Materials specifications ASTM D975 as incorporated by reference at 40 CFR 60.17 ASTM D975 for Grades S15 Ultra Low Sulfur diesel fuel, or other DEQ approved fuel specifications; and
- e. The sulfur content of the diesel fuel.

Fuel sampling and analysis, independent of that used for certification, as may be periodically required or conducted by DEQ. Exceedance of these specifications may be considered credible evidence of the exceedance of emission limits.

(9 VAC 5-80-110 and Condition 8 of the NSR permit dated June 21, 2016)

68. **Internal Combustion Engine Requirements (ICGF-W143-3 through ICGF-W143-6) - Limitations** -: Emissions from the four (4) 750 kW emergency generators (Ref. Nos. ICGF-W143-3, ICGF-W143-4, ICGF-W143-5, and ICGF-W143-6) shall not exceed the limits specified below:

	Each Diesel Generator	Combined
Nitrogen Oxides (as NO ₂)	11.4 lb/hr	6.8 tons/yr
Carbon Monoxide	1.2 lb/hr	0.7 tons/yr
Volatile Organic Compounds	0.9 lb/hr	0.5 tons/yr

(9 VAC 5-80-110 and Condition 9 of the NSR permit dated June 21, 2016)

69. **Internal Combustion Engine Requirements (ICGF-W143-3 through ICGF-W143-6) - Limitations** - Visible emissions from each of the four (4) 750 kW emergency generators (Ref. Nos. ICGF-W143-3, ICGF-W143-4, ICGF-W143-5, and ICGF-W143-6) shall not exceed 10% opacity except during one six-minute period in any one hour in which visible emissions shall not exceed 20% opacity as determined by EPA Method 9 (reference 40 CFR 60, Appendix A). This condition applies at all times except during startup, shutdown, and malfunction.

(9 VAC 5-80-110 and Condition 10 of the NSR permit dated June 21, 2016)

For the engines and generators listed in the table at the beginning of Section IV as applicable to 40 CFR 60, Subpart IIII:

70. **Internal Combustion Engine Requirements - Limitations - NSPS, Subpart IIII** - The permittee shall comply with the applicable requirements of 40 CFR 60, Subpart IIII (Standards of Performance for Stationary Compression Ignition Internal Combustion Engines) as follows:

- The permittee shall comply with the applicable emissions standards in 40 CFR 60.4205 for emergency engines.
- The permittee shall comply with the applicable fuel requirements in 40 CFR 60.4207. The maximum sulfur content of the diesel fuel used in all applicable engines shall not exceed the following limits:

0.0015% or 15 ppm

- The permittee shall comply with the applicable monitoring requirements in 40 CFR 60.4209. Each emergency engine that does not meet the standards applicable to non-

emergency engines in 40 CFR 60, Subpart IIII must be equipped with a non-resettable hour meter prior to startup of the engine. Each engine equipped with a diesel particulate filter to comply with emission standards must be installed with a backpressure monitor that notifies the owner or operator when the high backpressure limit of the engine is approached.

- d. The permittee shall comply with the applicable compliance requirements in 40 CFR 60.4211. Engines must be operated and maintained according to the manufacturer's emission-related written instructions. No emission-related engine settings may be changed except those permitted by the manufacturer.
- e. The permittee shall comply with the applicable testing requirements in 40 CFR 60.4212.
- f. The permittee shall comply with the applicable notification, reporting, and recordkeeping requirements in 40 CFR 60.4214. These requirements include, but are not limited to, maintenance records, manufacturer certifications, operating hours, and reasons for operation.
- g. The permittee shall comply with the applicable requirements of the General Provisions as outlined in Table 8 to 40 CFR 60, Subpart IIII.

The permittee shall refer to the most current version of the applicable regulation for additional or revised requirements not included in this permit.

(9 VAC 5-80-110, 9 VAC 5-50-410, 40 CFR 60.4204, 60.4205, 60.4207, 60.4209, 60.4211, 60.4212, 60.4213, 60.4214, and 60.4218)

For the engines and generators listed in the table at the beginning of Section IV as applicable to 40 CFR 60, Subpart JJJJ:

71. Internal Combustion Engine Requirements - Limitations - NSPS, Subpart JJJJ - The permittee shall comply with the applicable requirements of 40 CFR 60, Subpart JJJJ (Standards of Performance for Stationary Spark Ignition Internal Combustion Engines) as follows:

- a. The permittee shall comply with the applicable emissions standards in 40 CFR 60.4233 (Table 1 to 40 CFR 60, Subpart JJJJ for emergency engines greater than 25 HP (19 kW) and less than 130 HP (97 kW)).
- b. The permittee shall comply with the applicable monitoring requirements in 40 CFR 60.4237. Each emergency engine greater than or equal to 500 HP that was built on or after July 1, 2010, each emergency engine greater than or equal to 130 HP and less than 500 HP that was built on or after January 1, 2011, and each emergency engine less than 130 HP that was built on or after July 1, 2008 and does not meet the standards applicable to non-emergency engines in 40 CFR 60, Subpart JJJJ must be equipped with a non-resettable hour meter prior to startup of the engine.
- c. The permittee shall comply with the applicable compliance requirements in 40 CFR 60.4243.
- d. The permittee shall comply with the applicable testing requirements in 40 CFR 60.4244.
- e. The permittee shall comply with the applicable notification, reporting, and recordkeeping requirements in 40 CFR 60.4245.

- f. The permittee shall comply with the applicable requirements of the General Provisions as outlined in Table 3 to 40 CFR 60, Subpart JJJJ.

The permittee shall refer to the most current version of the applicable regulation for additional or revised requirements not included in this permit.

(9 VAC 5-80-110, 9 VAC 5-50-410, 40 CFR 60.4233, 60.4237, 60.4243, 60.4244, 60.4245, and 60.4246)

For the engines and generators listed in the table at the beginning of Section IV as applicable to 40 CFR 63, Subpart ZZZZ:

- 72. Internal Combustion Engine Requirements - (all units, all sizes) - Limitations - MACT, Subpart ZZZZ** - The permittee shall comply with the applicable requirements of 40 CFR 63, Subpart ZZZZ (National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines). The permittee shall refer to the most current version of the applicable regulation for additional or revised requirements not included in this permit.
(9 VAC 5-80-110, 9 VAC 5-60-100, and 40 CFR 63, Subpart ZZZZ)
- 73. Internal Combustion Engine Requirements - (NER > 500 hp) - Limitations - MACT, Subpart ZZZZ** - New or reconstructed emergency stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions that do not operate or are not contractually obligated to be available for more than 15 hours per calendar year for the purposes specified in §63.6640(f)(2)(ii) and (iii) do not have to meet the requirements of 40 CFR 63, Subpart ZZZZ or 40 CFR 63, Subpart A, except for the initial notification requirements of 40 CFR 63.6645(f). However, emergency stationary RICE must operate according to the conditions in 40 CFR 63.6640(f)(1) through (3) to be considered “emergency” under this subpart. Any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year, as described in 63.6640(f)(1) through (3) is prohibited. If you do not operate the engine according to the requirements in paragraphs (f)(1) through (4) of 63.6640(f), the engine will not be considered an emergency engine under 40 CFR 63, Subpart ZZZZ and must meet all requirements for non-emergency engines.
(9 VAC 5-80-110, 9 VAC 5-60-100, 40 CFR 63.6590(b)(1)(i), and 40 CFR 63.6640(f)(1) through (3))
- 74. Internal Combustion Engine Requirements - (EER > 500 hp) - Limitations - MACT, Subpart ZZZZ** - Existing emergency stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions that do not operate or are not contractually obligated to be available for more than 15 hours per calendar year for the purposes specified in §63.6640(f)(2)(ii) and (iii) do not have to meet the requirements of 40 CFR 63, Subpart ZZZZ or 40 CFR 63, Subpart A, including initial notification requirements. However, emergency stationary RICE must operate according to the conditions in 40 CFR 63.6640(f)(1) through (3) to be considered “emergency” under this subpart. Any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year, as described in 63.6640(f)(1) through (3) is prohibited. If you do not operate the engine according to the requirements in paragraphs (f)(1) through (4) of 63.6640(f), the engine will not be considered an emergency engine under 40 CFR 63, Subpart ZZZZ and must meet all requirements for non-emergency engines.

(9 VAC 5-80-110, 9 VAC 5-60-100, 40 CFR 63.6590(b)(3)(iii), and 40 CFR 63.6640(f)(1) through (3))

75. **Internal Combustion Engine Requirements - (NER \leq 500 hp) - Limitations - MACT, Subpart ZZZZ** - All new or reconstructed emergency or limited use stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions shall meet the requirements of 40 CFR 63, Subpart ZZZZ by meeting the applicable requirements of 40 CFR 60, Subpart IIII, for compression ignition engines, or 40 CFR 60, Subpart JJJJ for spark ignition engines. No further requirements apply for such engines under 40 CFR 63, Subpart ZZZZ. Please note, however, that unit ICGF-Z312-NG was manufactured prior to the applicability date for 40 CFR 60, Subpart JJJJ, thus there are no applicable requirements under this subpart. It is therefore assumed that the requirements of 40 CFR 63, Subpart ZZZZ have been met for this unit.
(9 VAC 5-80-110, 9 VAC 5-60-100, 40 CFR 63.6590(c)(6), and 40 CFR 60.4230)

76. **Internal Combustion Engine Requirements - (EER \leq 500 hp) - Limitations - MACT, Subpart ZZZZ** - All existing emergency compression ignition stationary RICE with a site rating of less than or equal to 500 brake HP shall be in compliance with 40 CFR 63, Subpart ZZZZ by May 3, 2013. All existing emergency spark ignition (SI) stationary RICE with a site rating of less than or equal to 500 brake HP shall be in compliance with 40 CFR 63, Subpart ZZZZ by October 19, 2013. These units shall comply with the following requirements, as applicable:

- a. Emission limitations in 40 CFR 63.6602 (Table 2c).
- b. Fuel requirements in 40 CFR 63.6604(b) (for emergency CI engines with a site rating of more than 100 hp and a displacement of less than 30 liters per cylinder that use diesel fuel and operate or are contractually obligated to be available for more than 15 hours per calendar year for the purposes specified in §63.6640(f)(2)(ii) and (iii) or that operate for the purpose specified in §63.6640(f)(4)(ii)).
- c. General compliance requirements in 40 CFR 63.6605.
- d. Monitoring, installation, collection, operation, and maintenance requirements in 40 CFR 63.6625(e), (f), (h), and (i) (for CI RICE) and (j) (for SI RICE).
- e. Continuous compliance requirements in 40 CFR 63.6640.
- f. Recordkeeping requirements in 40 CFR 63.6655 (except (c)) and 63.6660.
- g. Reporting requirements as specified in Footnote 1 of Table 2c.
- h. Reporting requirements in 40 CFR 63.6650(h) (for emergency CI or SI engines with a site rating of more than 100 brake hp that operate or are contractually obligated to be available for more than 15 hours per calendar year for the purposes specified in §63.6640(f)(2)(ii) and (iii) or that operate for the purpose specified in §63.6640(f)(4)(ii)).
- i. Requirements of the General Provisions as outlined in Table 8 to 40 CFR 63 Subpart ZZZZ, except per 63.6645(a)(5), the following do not apply: 63.7(b) and (c), 63.8(e), (f)(4) and (f)(6), and 63.9(b)-(e), (g) and (h).

(9 VAC 5-80-110, 9 VAC 5-60-100, 40 CFR 63.6602, 63.6604, 63.6605, 63.6625, 63.6640, 63.6645, 63.6650, 63.6655, and 63.6660)

B. Monitoring

77. **Internal Combustion Engine Requirements (ICGF-P1-1, ICGF-P1-2, ICGF-P1-3, ICGF-P1-4, ICGF-Z312-D, ICGF-NH94-1A through 4A, ICGF-W143-3, ICGF-W-143-4, ICGF-W143-5, ICGF-W143-6, and ICGF-W143-238 through 241) - Monitoring** - The permittee shall perform an annual visible emissions evaluation (at least once each 12 consecutive calendar months) on each generator stack for units ICGF-P1-1, ICGF-P1-2, ICGF-P1-3, ICGF-P1-4, and ICGF-Z312-D, ICGF-NH94-1A through 4A, ICGF-W143-3, ICGF-W143-4, ICGF-W143-5, and ICGF-W143-6, and ICGF-W143-238 through 241 for six minutes during normal operations and daylight hours, in accordance with EPA Method 9 (reference 40 CFR 60, Appendix A). If the six-minute VEE opacity average exceeds 50% of the specified standard for a unit, the VEE shall continue for an additional 12 minutes on that unit. If any of the six-minute averages during the 18 minutes exceeds the specified standard for the unit, the VEE for that specific unit shall continue for one hour from initiation on the stack to determine compliance with the opacity limit. The permittee shall keep records in accordance with EPA Method 9. The records shall be kept at the facility and made available for inspection by the DEQ for the most recent five (5) year period.
(9 VAC 5-80-110)

C. Recordkeeping

78. **Internal Combustion Engine Requirements (All Units) - Recordkeeping** - The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Director, Tidewater Regional Office. These records shall include, but are not limited to:
- a. The annual hours of operation for each emergency generator (Ref. Nos. ICGF-P1-1, ICGF-P1-2, ICGF-P1-3, ICGF-P1-4, ICGF-Z312-D, ICGF-CEP209, and ICGF-W143-238 through 241), calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
 - b. A log documenting the reasons for operation of each emergency generator (Ref. Nos. ICGF-NH94-1A, ICGF-NH94-2A, ICGF-NH94-3A, and ICGF-NH94-4A), including interruption of service from the normal power supplier, periodic maintenance testing, operational training, and/or Pennsylvania New Jersey Maryland Interconnection, LLC (PJM) Emergency Load Response Program (ELRP) declared emergencies.
 - c. Annual throughput of distillate oil (in gallons) for each emergency generator (Ref. Nos. ICGF-NH94-1A, ICGF-NH94-2A, ICGF-NH94-3A, and ICGF-NH94-4A), calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.

- d. A log of the operating hours for each of the four (4) 750 kW emergency generators (Ref. Nos. ICGF-W143-3, ICGF-W143-4, ICGF-W143-5, and ICGF-W143-6), calculated monthly as the sum of each consecutive 12 month period, as required by Condition 65. Compliance for the consecutive 12 month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceeding 11 months.
- e. A log of the operating hours for each of the four (4) 750 kW emergency generators (Ref. Nos. ICGF-W143-3, ICGF-W143-4, ICGF-W143-5, and ICGF-W143-6), as required by Condition 62.
- f. Annual emissions calculations for NO_x from the four (4) 750 kW diesel emergency generators (Unit Ref. No's. ICGF-W143-3, ICGF-W143-4, ICGF-W143-5, and ICGF-W143-6) to verify compliance with the ton/yr emissions limitations in Condition 68. Compliance for the consecutive 12-month period shall be demonstrated by calculating the emissions for the most recently completed calendar month and adding these emissions to the individual monthly totals for the preceding 11 months.
- g. All fuel supplier certifications;
- h. Records of visible emissions evaluations, in accordance with EPA Method 9;
- i. Records as necessary to demonstrate compliance with 40 CFR 60, Subpart IIII, 40 CFR 60, Subpart JJJJ, and 40 CFR 63, Subpart ZZZZ for all applicable engines (see table at the beginning of Section IV).
- j. DEQ-approved, pollutant-specific emission factors and equations used to show compliance with the emission limits contained in Part A of this section of this permit.
- k. Records of the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer.

These records shall be available at the facility for inspection by the DEQ and shall be current for the most recent five (5) years.

(9 VAC 5-80-110, Condition 33 of the NSR permit issued February 18, 2010, Condition 17 of the NSR permit issued December 14, 2011, Condition 9 of the NSR permit issued November 21, 2011, Condition 10 of the NSR permit issued November 23, 2011, and Condition 11 of the NSR permit dated June 21, 2016)

D. Testing

79. **Internal Combustion Engine Requirements (ICGF-NH94-1A, ICGF-NH94-2A, ICGF-NH94-3A, and ICGF-NH94-4A) - Testing** Emergency generators ICGF-NH94-1A, ICGF-NH94-2A, ICGF-NH94-3A, and ICGF-NH94-4A shall be constructed so as to allow for emissions testing upon reasonable notice at any time, using appropriate methods. Sampling ports shall be provided when requested at the appropriate locations and safe sampling platforms and access shall be provided.
- (9 VAC 5-80-110 and Condition 11 of the NSR permit issued November 23, 2011)

80. **Internal Combustion Engine Requirements (ICGF-W143-3 through ICGF-W143-6) - Testing** - Upon request by the DEQ, the permittee shall conduct visible emissions evaluations of the four (4) 750 kW emergency generators (Ref No. ICGF-W143-3, ICGF-W143-4, ICGF-W143-5, and ICGF-W143-6) to demonstrate compliance with the visible emissions limits contained in this permit. The details of the visible emissions evaluations shall be arranged with the DEQ Tidewater Regional Office.
(9 VAC 5-80-110 and Condition 12 of the NSR permit issued June 21, 2016)
81. **Internal Combustion Engine Requirements (ICGF-W143-3, ICGF-W143-4, ICGF-W143-5, and ICGF-W143-6) - Testing** The four (4) 750 kW emergency generators (Ref. Nos. ICGF-W143-3, ICGF-W143-4, ICGF-W143-4, ICGF-W143-5, and ICGF-W143-6) shall be constructed so as to allow for emissions testing upon reasonable notice at any time, using appropriate methods. This includes constructing the facility/equipment such that volumetric flow rates and pollutant emission rates can be accurately determined by the applicable test methods and providing a stack or duct that is free from cyclonic flow. Sampling ports shall be provided when requested at the appropriate locations and safe sampling platforms and access shall be provided.
(9 VAC 5-80-110 and Condition 13 of the NSR permit issued June 21, 2016)

V. Surface Coating Operations Requirements: PNTS-AERO

The surface coating activities associated with this section of the permit consist of the following emission units.

Grouped Emission Units - PNTS-AERO (units subject to Aerospace MACT - 40 CFR 63, Subpart GG):

Applicable Federal Requirements	Emission Unit ID	Emission Unit Description	Pollution Control Device (PCD) Description	Applicable Permit Date
MACT GG	PNT0-HM14	Open hanger aircraft touchup – HVLP, aerosol, hand application	N/A	N/A
MACT GG	PNT0-HM15	Open hanger aircraft touchup – HVLP, aerosol, hand application	N/A	N/A
MACT GG	PNT0-HSC2	Open hanger aircraft touchup – HVLP, aerosol, hand application	N/A	N/A
MACT GG	PNT0-HSC5	Open hanger aircraft touchup – HVLP, aerosol, hand application	N/A	N/A
MACT GG	PNT0-HSC7	Open hanger aircraft touchup – HVLP, aerosol, hand application	N/A	N/A
MACT GG	PNT0-HSC9	Open hanger aircraft touchup – HVLP, aerosol, hand application	N/A	N/A
MACT GG	PNT0-HSC11	Open hanger aircraft touchup – HVLP, aerosol, hand application	N/A	N/A
MACT GG	PNT0-HSC22	Open hanger aircraft touchup – HVLP, aerosol, hand application	N/A	N/A
MACT GG	PNT0-HSC26	Open hanger aircraft touchup – HVLP, aerosol, hand application	N/A	N/A
MACT GG	PNT0-HSC28	Open hanger aircraft touchup – HVLP, aerosol, hand application	N/A	N/A
MACT GG	PNT0-HSC84	Open hanger aircraft touchup – HVLP, aerosol, hand application	N/A	N/A
MACT GG	PNT0-MAG42/HMM774	Open hanger aircraft touchup – HVLP, aerosol, hand application	N/A	N/A
MACT GG	PNTS-SP300-400	Paint booth, aircraft propellers – hand application only (installed 1/2005)	N/A	November 22, 2011
MACT GG	PNTS-SP300-500	Paint booth, aircraft parts – HVLP spray gun, aerosol, hand application	Fabric filter	November 22, 2011
MACT GG	PNTS-SP300-600	Paint hood, aircraft electronic assemblies – aerosol and hand application	Fabric filter	N/A
MACT GG	PNTS-SP383-1 and 2	Paint hoods (installed 1997), aircraft panels/corrosion school- HVLP spray, aerosol, and hand application	Fabric filter	N/A
MACT GG	PNTS-V146	Paint booth, helicopter – HVLP spray application (installed 12/2006)	HEPA filter	August 10, 2011
MACT GG	PNT0-V147	Open hanger aircraft touchup – HVLP, aerosol, hand application	N/A	N/A
MACT GG	PNT0-VAW120	Open hanger aircraft touchup – HVLP, aerosol, hand application	N/A	N/A
MACT GG	PNT0-VAW121	Open hanger aircraft touchup – HVLP, aerosol, hand application	N/A	N/A
MACT GG	PNT0-VAW123	Open hanger aircraft touchup – HVLP, aerosol, hand application	N/A	N/A
MACT GG	PNT0-VAW124	Open hanger aircraft touchup – HVLP, aerosol, hand application	N/A	N/A
MACT GG	PNT0-VAW125	Open hanger aircraft touchup – HVLP, aerosol, hand application	N/A	N/A
MACT GG	PNT0-VAW126	Open hanger aircraft touchup – HVLP, aerosol, hand application	N/A	N/A
MACT GG	PNT0-VRC40	Open hanger aircraft touchup – HVLP, aerosol, hand application	N/A	N/A
MACT GG	CLNO-GRP-A	Paint gun washers - Aerospace	N/A	N/A

A. Limitations

- 82. Surface Coating Operations Requirements - PNTS-AERO - (All Units) - Limitations -**
At all times, including periods of startup, shutdown and malfunction, owners shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with air pollution control practices for minimizing emissions. This condition applies to units identified as a booth.
(9 VAC 5-50-20 E and 9 VAC 5-80-110)
- 83. Surface Coating Operations Requirements - PNTS-AERO - (All Units) - Limitations -**
At all times the disposal of volatile organic compounds shall be accomplished by taking measures, to the extent practicable, consistent with air pollution control practices for minimizing emissions. Volatile organic compounds shall not be intentionally spilled, discarded in sewers which are not connected to a treatment plant, or stored in open containers or handled in any other manner that would result in evaporation beyond that consistent with air pollution control practices for minimizing emissions.
(9 VAC 5-50-20 F, 9 VAC 5-80-110, Condition 5 of the NSR/MACT permit issued August 10, 2011, and Condition 4 of the NSR/MACT permit issued November 22, 2011)
- 84. Surface Coating Operations Requirements - PNTS-AERO - (PNTS-V146, PNTS-SP300-400, and PNTS-SP300-500) - Limitations -** Paint booths PNTS-V146, PNTS-SP300-400, and PNTS-SP300-500 shall be constructed so as to allow for emissions testing upon reasonable notice at any time, using appropriate methods. Sampling ports shall be provided when requested at the baghouse stack exhaust and safe sampling platforms and access shall be provided.
(9 VAC 5-80-110, Condition 17 of the NSR/MACT permit issued August 10, 2011, and Condition 9 of the NSR/MACT permit issued November 22, 2011)
- 85. Surface Coating Operations Requirements - PNTS-AERO - (PNTS-V146) - Limitations**
- Particulate emissions from PNTS-V146 shall be controlled by a HEPA filter. The filter shall be provided with adequate access for inspection and shall be in operation when PNTS-V146 is operating.
(9 VAC 5-80-110 and Condition 3 of the NSR/MACT permit issued August 10, 2011)
- 86. Surface Coating Operations Requirements - PNTS-AERO - (PNTS-V146) - Limitations**
- The throughput of coatings to PNTS-V146 shall not exceed 972 gallons per year, calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual totals for the preceding 11 months.
(9 VAC 5-80-110 and Condition 8 of the NSR/MACT permit issued August 10, 2011)
- 87. Surface Coating Operations Requirements - PNTS-AERO - (PNTS-V146) - Limitations**
- The VOC content of coatings to PNTS-V146 shall not exceed the following limits:
Primers: 2.9 lbs/gallon (less water and exempt solvents) as applied
Topcoats: 3.5 lbs/gallon (less water and exempt solvents) as applied
(9 VAC 5-80-110, 9 VAC 5-60-100, and Condition 10 of the NSR/MACT permit issued August 10, 2011)

88. Surface Coating Operations Requirements - PNTS-AERO - (PNTS-V146) - Limitations
- The HAP content of coatings to PNTS-V146 shall not exceed the following limits:

Primers: 2.9 lbs/gallon (less water) as applied
Topcoats: 3.5 lbs/gallon (less water) as applied

(9 VAC 5-80-110, 9 VAC 5-60-100, and Condition 11 of the NSR/MACT permit issued August 10, 2011)

89. Surface Coating Operations Requirements - PNTS-AERO - (PNTS-V146 and ABRA-V146) - Limitations - Emissions from the operation of the helicopter paint/depaint facility (PNTS-V146 and ABRA-V146) shall not exceed the limits specified below:

Particulate Matter	7.7 lbs/hr	0.7 tons/yr
PM-10	6.3 lbs/hr	0.6 tons/yr
Volatile Organic Compounds	18.9 lbs/hr	1.7 tons/yr

These emissions are derived from the estimated overall emission contribution from operating limits. Exceedance of the operating limits shall be considered credible evidence of the exceedance of emission limits. Compliance with these emission limits may be determined as stated in Condition numbers 75, 76, 77, 78, 82, and 104.

(9 VAC 5-80-110 and Condition 13 of the NSR/MACT permit issued August 10, 2011)

90. Surface Coating Operations Requirements - PNTS-AERO - (PNTS-SP300-500) - Limitations - Particulate emissions from paint booth PNTS-SP300-500 shall be controlled by a fabric filter. The fabric filter shall be provided with adequate access for inspection and shall be in operation when the paint booth is operating.
(9 VAC 5-80-110 and Condition 3 of the NSR/MACT permit issued November 22, 2011)

91. Surface Coating Operations Requirements - PNTS-AERO - (PNTS-SP300-400 and PNTS-SP300-500) - Limitations - Emissions from the operation of paint booths PNTS-SP300-400 and PNTS-SP300-500 shall not exceed the limits specified below:

PNTS-SP300-400

Volatile Organic Compounds	0.6 lbs/hr	2.7 tons/yr
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PNTS-SP300-500

PM/PM-10	0.2 lbs/hr	0.9 tons/yr
Volatile Organic Compounds	1.8 lbs/hr	8.0 tons/yr

These emission limits are derived from the estimated emissions contributions from unlimited hours of operation, which precludes the need for operating limits and associated recordkeeping.

(9 VAC 5-80-110 and Condition 6 of the NSR/MACT permit issued November 22, 2011)

92. Surface Coating Operations Requirements - PNTS-AERO - (PNTS-V146, PNTS-SP300-400, and PNTS-SP300-500) - Limitations - Visible emissions from PNTS-V146, PNTS-SP300-400, and PNTS-SP300-500, each, shall not exceed 5 percent opacity, as determined by EPA Method 9 (reference 40 CFR 60, Appendix A). This condition applies at all times

except during startup, shutdown, and malfunction.

(9 VAC 5-80-110, Condition 14 of the NSR/MACT permit issued August 10, 2011, and Condition 7 of the NSR/MACT permit issued November 22, 2011)

93. Surface Coating Operations Requirements - PNTS-AERO - Limitations - MACT GG -

The permittee shall comply with the requirements of 40 CFR 63 Subpart GG (Aerospace Manufacturing and Rework Facilities) and of 40 CFR 63 Subpart A, except as specified in 40 CFR 63.743(a) and Table 1 of 40 CFR 63 Subpart GG. The permittee should refer to the most current version of the applicable regulation for additional or revised requirements not included in this permit.

(9 VAC 5-80-110, 9 VAC 5-60-100, 40 CFR 63.741(b), Condition 12 of the NSR/MACT permit issued August 10, 2011, and Condition 5 of the NSR/MACT permit issued November 22, 2011)

94. Surface Coating Operations Requirements - PNTS-AERO - (PNTS-SP300-400, PNTS-SP300-500, PNTS-SP300-600, and PNTS-V146) - Limitations - MACT GG - (PNTS-SP300-400, PNTS-SP300-500, PNTS-SP300-600, and PNTS-V146) - Limitations - MACT

GG - Each owner or operator that uses an air pollution control device or equipment to control HAP emissions shall prepare and operate in accordance with a startup, shutdown, and malfunction plan in accordance with 40 CFR 63.6. Dry particulate filter systems operated per the manufacturer's instructions are exempt from a startup, shutdown and malfunction plan. A startup, shutdown and malfunction plan shall be prepared for facilities using locally prepared operating procedures. In addition to the information required in 40 CFR 63.6, this plan shall also include the following provisions:

- a. The plan shall specify the operation and maintenance criteria for each air pollution control device for equipment and shall include a standardized checklist to document the operation and maintenance of the equipment;
- b. The plan shall include a systematic procedure for identifying malfunctions and for reporting them immediately to supervisory personnel; and,
- c. The plan shall specify procedures to be followed to ensure that equipment or process malfunctions due to poor maintenance or other preventable conditions do not occur.

This condition applies to Emission Units PNTS-SP300-400, PNTS-SP300-500, PNTS-SP300-600, and PNTS-V146 (PNTS-AERO booths).

(9 VAC 5-80-110, 9 VAC 5-60-100, and 40 CFR 63.743(b))

95. Surface Coating Operations Requirements - PNTS-AERO - Limitations - MACT GG -

All cleaning operations shall comply with the following requirements:

- a. Place cleaning solvent-laden cloth, paper, or any other absorbent applicators used for cleaning in bags or other closed containers upon completing their use. Ensure that these bags and containers are kept closed at all times except when depositing or removing these materials from the container. Use bags and containers of such design so as to contain the vapors of the cleaning solvent. Cotton-tipped swabs used for very small cleaning operations are exempt from this requirement.
- b. Store fresh and spent cleaning solvents, except semi-aqueous solvent cleaners, used in aerospace cleaning operations in closed containers.

- c. Conduct the handling and transfer of cleaning solvents to or from enclosed systems, vats, waste containers, and other cleaning operation equipment that hold or store fresh or spent cleaning solvents in such a manner that minimizes spills.

(9 VAC 5-80-110, 9 VAC 5-60-100, and 40 CFR 63.744(a))

96. Surface Coating Operations Requirements - PNTS-AERO - Limitations - MACT GG -

Hand-wipe cleaning operations shall use cleaning solvents that meet one of the following requirements:

- a. Meet one of the composition requirements for approved cleaning solvents;
- b. Have a composite vapor pressure of 45 mm Hg or less at 20 °C; or,
- c. Demonstrate that the volume of hand-wipe solvents used in cleaning operations has been reduced by at least 60% from the baseline.

(9 VAC 5-80-110, 9 VAC 5-60-100, and 40 CFR 63.744(b))

97. Surface Coating Operations Requirements - PNTS-AERO - Limitations - MACT GG -

Each owner or operator of a spray gun cleaning operation in which spray guns are used for the application of coatings or any other materials that require the spray guns to be cleaned shall use one or more of the following techniques, or their equivalent, as specified and described in 40 CFR 63.744(c):

- a. Enclosed system;
- b. Nonatomized cleaning;
- c. Disassembled spray gun cleaning;
- d. Atomizing cleaning.
- e. Cleaning of the nozzle tips of automated spray equipment systems, except for robotic systems that can be programmed to spray into a closed container, shall be exempt from the requirements of paragraph (c) of 40 CFR 63.744.

If leaks are found in the enclosed system during the monthly inspection required in 40 CFR 63.751(a), repairs shall be made as soon as practicable, but no later than 15 days after the leak was found. If the leak is not repaired by the 15th day after detection, the cleaning solvent shall be removed, and the enclosed cleaner shall be shut down until the leak is repaired or its use is permanently discontinued.

(9 VAC 5-80-110, 9 VAC 5-60-100, and 40 CFR 63.744(c))

98. Surface Coating Operations Requirements - PNTS-AERO - Limitations - MACT GG -

Used cleaning solvent from flush-cleaning operations shall be emptied each time aerospace parts or assemblies, or components of a coating unit are flush cleaned into an enclosed container or collection system that is kept closed when not in use or into a system with equivalent emission control.

(9 VAC 5-80-110, 9 VAC 5-60-100, and 40 CFR 63.744(d))

99. Surface Coating Operations Requirements - PNTS-AERO - Limitations - MACT GG -

The handling and transfer of primers and topcoats to or from containers, tanks, vats, vessels, and piping systems shall be conducted in such a manner that minimizes spills.

(9 VAC 5-80-110, 9 VAC 5-60-100, and 40 CFR 63.745(b))

100. Surface Coating Operations Requirements - PNTS-AERO - Limitations - MACT GG -

The uncontrolled coatings organic HAP and VOC content levels shall not exceed the following:

- a. 2.9 pounds organic HAP per gallon of primer, less water, as applied;
- b. 2.9 pounds VOC per gallon of primer, less water and exempt solvents, as applied;
- c. 3.5 pounds organic HAP per gallon of topcoat, less water, as applied;
- d. 3.5 pounds VOC per gallon of topcoat, less water and exempt solvents, as applied.

(9 VAC 5-80-110, 9 VAC 5-60-100, and 40 CFR 63.745(c))

101. Surface Coating Operations Requirements - PNTS-AERO - Limitations - MACT GG -

All primers and topcoats (including self-priming topcoats) shall be applied using one or more of the following application techniques:

- a. Flow/curtain coat application;
- b. Dip coat application;
- c. Roll coating;
- d. Brush coating;
- e. Cotton-tipped swab application;
- f. Electrodeposition (dip) coating;
- g. High volume low pressure (HVLP) spraying;
- h. Electrostatic spray application;
- i. Other coating application methods that achieve emission reductions equivalent to HVLP or electrostatic spray application methods.

(9 VAC 5-80-110, 9 VAC 5-60-100, and 40 CFR 63.745(f)(1))

102. Surface Coating Operations Requirements - PNTS-AERO - Limitations - MACT GG -

All application devices used to apply primers or topcoats (including self-priming topcoats) shall be operated according to company procedures, local specified operating procedures, and/or the manufacturer's specifications, whichever is most stringent, at all times.

Equipment modified by the facility shall maintain a transfer efficiency equivalent to HVLP and electrostatic spray application techniques.

(9 VAC 5-80-110, 9 VAC 5-60-100, and 40 CFR 63.745(f)(2))

103. Surface Coating Operations Requirements - PNTS-AERO - Limitations - MACT GG -
The following situations are exempt from the requirements of 40 CFR 63.745(f)(1):

- a. Any situation that normally requires the use of an airbrush or an extension on the spray gun to properly reach limited access space;
- b. The application of coatings that contain fillers that adversely affect atomization with HVLP spray guns and that the permitting agency has determined cannot be applied by any of the application methods specified in paragraph 40 CFR 63.745(f)(1);
- c. The application of coatings that normally have a dried film thickness of less than 0.0013 centimeter (0.0005 in.) and that the permitting agency has determined cannot be applied by any of the application methods specified in paragraph 40 CFR 63.745(f)(1);
- d. The use of airbrush application methods for stenciling, lettering, and other identification markings;
- e. The use of hand-held spray can application methods; and,
- f. Touch-up and repair operations.

(9 VAC 5-80-110, 9 VAC 5-60-100, and 40 CFR 63.745(f)(3))

104. Surface Coating Operations Requirements - PNTS-AERO - Limitations - MACT GG -

The handling and transfer of waste that contains HAP to or from containers, tanks, vats, vessels, and piping systems shall be conducted in such a manner that minimizes spills.

(9 VAC 5-80-110, 9 VAC 5-60-100, and 40 CFR 63.748)

105. Surface Coating Operations Requirements - PNTS-AERO - Limitations - MACT GG -

Any facility subject to 40 CFR 63 subpart GG shall be considered in noncompliance if the owner or operator fails to submit a startup, shutdown, and malfunction plan as required by 40 CFR 63.743(b) or uses a control device other than one specified in 40 CFR 63 Subpart GG that has not been approved by the Administrator.

(9 VAC 5-80-110, 9 VAC 5-60-100, and 40 CFR 63.749(b))

106. Surface Coating Operations Requirements - PNTS-AERO - Limitations - MACT GG -

Each cleaning operation subject to 40 CFR 63 subpart GG shall be considered in noncompliance if the owner or operator fails to institute and carry out the housekeeping measures required under 40 CFR 63.744(a). Incidental emissions resulting from the activation of pressure release vents and valves on enclosed cleaning systems are exempt from this condition.

(9 VAC 5-80-110, 9 VAC 5-60-100, and 40 CFR 63.749(c))

107. Surface Coating Operations Requirements - PNTS-AERO - Limitations - MACT GG -

Hand-wipe cleaning operations shall be considered in compliance when all hand-wipe cleaning solvents, excluding those used for hand cleaning of spray gun equipment under 40 CFR 63.744(c)(3), meet either the composition requirements specified in 40 CFR 63.744(b)(1) or the vapor pressure requirement specified in 40 CFR 63.744(b)(2).

(9 VAC 5-80-110, 9 VAC 5-60-100, and 40 CFR 63.749(c)(1))

108. Surface Coating Operations Requirements - PNTS-AERO - Limitations - MACT GG -
Spray gun cleaning operations shall be considered in compliance when each of the following conditions is met:

- a. One of the four techniques specified in 40 CFR 63.744(c)(1) through (c)(4) is used;
- b. The technique selected is operated according to the procedures specified in 40 CFR 63.744(c)(1) through (c)(4) as appropriate; and,
- c. If an enclosed system is used, monthly visual inspections are conducted and any leak detected is repaired within 15 days after detection. If the leak is not repaired by the 15th day after detection, the solvent shall be removed and the enclosed cleaner shall be shut down until the cleaner is repaired or its use is permanently discontinued.

(9 VAC 5-80-110, 9 VAC 5-60-100, and 40 CFR 63.749(c)(2))

109. Surface Coating Operations Requirements - PNTS-AERO - Limitations - MACT GG -
A flush cleaning operation shall be considered in compliance if the operating requirements specified in 40 CFR 63.744(d) are implemented and carried out.

(9 VAC 5-80-110, 9 VAC 5-60-100, and 40 CFR 63.749(c)(3))

B. Monitoring

110. Surface Coating Operations Requirements - PNTS-AERO - (PNTS-V146) - Monitoring
- The HEPA filter for PNTS-V146 shall be equipped with a device to measure the pressure drop across the filter. The monitoring device shall be installed, maintained, calibrated, and operated in accordance with approved procedures which shall include, as a minimum, the manufacturer's written requirements or recommendations. Each monitoring device shall be provided with adequate access for inspection and shall be in operation when PNTS-V146 is operating.

(9 VAC 5-80-110 and Condition 6 of the NSR/MACT permit issued August 10, 2011)

111. Surface Coating Operations Requirements - PNTS-AERO - (PNTS-V146) - Monitoring
- To ensure good performance, the monitoring device used to measure pressure drop across the HEPA filter at PNTS-V146 shall be observed by the permittee with a frequency of not less than once per week on weeks when the paint booth is in operation. The permittee shall keep a log of the observations from the monitoring device. The log shall include the name of the observer, the date and time the observation was made, an indication that the process was operating, the acceptable pressure drop range, the measured pressure drop, and a description of the corrective actions taken whenever a pressure drop outside the acceptable range was observed, including the date repairs were completed.

(9 VAC 5-80-110 and Condition 7 of the NSR/MACT permit issued August 10, 2011)

112. Surface Coating Operations Requirements - PNTS-AERO - Monitoring - MACT GG -
The seals and all other potential sources of leaks associated with each enclosed gun spray cleaner system shall be visually inspected at least once per calendar month. Each inspection shall occur while the system is in operation.

(9 VAC 5-80-110, 9 VAC 5-60-100, and 40 CFR 63.751(a))

- 113. Surface Coating Operations Requirements - PNTS-AERO - Monitoring - MACT GG -**
If a dry particulate filter system is used to meet the requirements of 40 CFR 63.745(g)(2), the pressure drop across each dry particulate filter system shall be continuously monitored while primer or topcoat application operations are occurring. The pressure drop shall be read and recorded once per shift. This condition applies to PNTS-SP300-400, PNTS-SP300-500, PNTS-SP300-600, and PNTS-V146 (PNTS-AERO booths).
(9 VAC 5-80-110, 9 VAC 5-60-100, and 40 CFR 63.751(c)(1))

C. Recordkeeping and Reporting

- 114. Surface Coating Operations Requirements - PNTS-AERO - (All Units) - Recordkeeping and Reporting -** The permittee shall maintain records of emission data and operating parameters as necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Tidewater Regional Office. These records shall include, but are not limited to:
- a. Annual throughput of coatings (in gallons) to paint booth PNTS-V146. Annual throughput shall be calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual totals for the preceding 11 months.
 - b. Material Safety Data Sheets (MSDS), Certified Product Data Sheets (CPDS), or other vendor information as approved by DEQ showing VOC content and HAP content for each coating used in PNTS-SP300-500, PNTS-SP300-400, and PNTS-V146.
 - c. Records of monitoring device observations.
 - d. Records as applicable to ensure compliance with the requirements of 40 CFR 63 Subpart GG for PNTS-SP300-500, PNTS-SP300-400, and PNTS-V146.
- These records shall be available for inspection by the DEQ and shall be current for at least the most recent five years.
(9 VAC 5-80-110, Condition 16 of NSR/MACT permit issued August 10, 2011, and Condition 8 of NSR/MACT permit issued November 22, 2011)
- 115. Surface Coating Operations Requirements - PNTS-AERO - Recordkeeping and Reporting - MACT GG -** Each owner or operator of a new or existing cleaning operation subject to 40 CFR 63 Subpart GG shall record the information specified in 40 CFR 63.752(b)(1) through (b)(5), as appropriate.
(9 VAC 5-80-110, 9 VAC 5-60-100, and 40 CFR 63.752(b))
- 116. Surface Coating Operations Requirements - PNTS-AERO - Recordkeeping and Reporting - MACT GG -** Each owner or operator required to comply with the organic HAP and VOC content limits specified in 40 CFR 63.745(c) shall record the information specified in 40 CFR 63.752(c)(1) through (c)(6), as appropriate.
(9 VAC 5-80-110, 9 VAC 5-60-100, and 40 CFR 63.752(c))

117. **Surface Coating Operations Requirements - PNTS-AERO - (PNTS-SP300-400, PNTS-SP300-500, PNTS-SP300-600, and PNTS-V146) - Recordkeeping and Reporting - MACT GG** - Each owner or operator complying with 40 CFR 63.745(g) for the control of inorganic HAP emissions from primer and topcoat application operations through the use of a dry particulate filter system or a HEPA filter system shall record the pressure drop across the operating system once each shift during which coating operations occur. This condition applies to PNTS-SP300-400, PNTS-SP300-500, PNTS-SP300-600, and PNTS-V146 (PNTS-AERO booths).
(9 VAC 5-80-110, 9 VAC 5-60-100, and 40 CFR 63.752(d)(1))
118. **Surface Coating Operations Requirements - PNTS-AERO - Recordkeeping and Reporting - MACT GG** - Each owner or operator subject to the depainting standards specified in 40 CFR 63.746 shall record the information specified in 40 CFR 63.752(e)(1) through (e)(7), as appropriate.
(9 VAC 5-80-110, 9 VAC 5-60-100, and 40 CFR 63.752(e))
119. **Surface Coating Operations Requirements - PNTS-AERO - Recordkeeping and Reporting - MACT GG** - Except as provided in paragraphs (a)(2) and (a)(3) of 40 CFR 63.753, each owner or operator subject to 40 CFR part 63, subpart GG shall fulfill the requirements contained in 40 CFR 63.9(a) through (e) and (h) through (j), Notification requirements, and 40 CFR 63.10(a), (b), (d), and (f), Recordkeeping and reporting requirements, of the General Provisions, 40 CFR part 63, subpart A.
(9 VAC 5-80-110, 9 VAC 5-60-100, and 40 CFR 63.753(a)(1))
120. **Surface Coating Operations Requirements - PNTS-AERO - Recordkeeping and Reporting - MACT GG** - Each owner or operator subject to 40 CFR part 63 subpart GG comply with the reporting requirements of 40 CFR 63.753 (b) through (e), as applicable.
(9 VAC 5-80-110, 9 VAC 5-60-100, and 40 CFR 63.753 (b) through (e))

VI. Surface Coating Operations Requirements: PNTS-SHIP

The surface coating activities associated with this section of the permit consist of the following emission units:

Grouped Emission Units - PNTS-SHIP (units subject to Shipyard MACT - 40 CFR 63, Subpart II):

Applicable Federal Requirements	Emission Unit ID	Emission Unit Description	Pollution Control Device (PCD) Description	Applicable Permit Date
MACT II	PNT0-A80	Pierside painting of floating cranes - spray gun, aerosol, and hand application	N/A	N/A
MACT II	PNT0-CEP165A	Pierside small boat touchup painting – hand application (Port Ops)	N/A	N/A
MACT II	PNTS-CEP209	Paint booth, boat parts – HVLP spray gun, aerosol, hand application	Dry filter	December 14, 2011
MACT II	PNT0-DIVE	Small boat painting - spray gun, aerosol, and hand application	N/A	N/A
MACT II	PNT0-PIERS-KTR	Pierside ship painting, contractor – spray gun and hand application	N/A	N/A
MACT II	PNT0-PIERS-NVY	Pierside ship painting, ships forces – hand application	N/A	N/A
MACT II	PNT0-PIERS-SPRUCE	Pierside submarine touchup painting – hand application	N/A	N/A
MACT II	PNT0-PIERS- TUG	Pierside tugboat touchup painting, Moran tugs – hand application	N/A	N/A
MACT II	PNT0-Q50	Pierside small boat touchup, oil recovery ops – hand application	N/A	N/A
MACT II	PNT0-V88	Open hanger small boat touchup – aerosol and hand application	N/A	N/A

A. Limitations

121. **Surface Coating Operations Requirements - PNTS-SHIP - (All Units) - Limitations** - At all times, including periods of startup, shutdown and malfunction, owners shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with air pollution control practices for minimizing emissions. This condition applies to units identified as a booth.
 (9 VAC 5-50-20 E and 9 VAC 5-80-110)
122. **Surface Coating Operations Requirements - PNTS-SHIP - (All Units) - Limitations** - At all times the disposal of volatile organic compounds shall be accomplished by taking measures, to the extent practicable, consistent with air pollution control practices for minimizing emissions. Volatile organic compounds shall not be intentionally spilled, discarded in sewers which are not connected to a treatment plant, or stored in open containers or handled in any other manner that would result in evaporation beyond that consistent with air pollution control practices for minimizing emissions.
 (9 VAC 5-50-20 F and 9 VAC 5-80-110)
123. **Surface Coating Operations Requirements - PNTS-SHIP - (PNTS-CEP209) - Limitations** - Particulate emissions from spray paint booth PNTS-CEP209 shall be controlled by a dry filter. The dry filter shall be provided with adequate access for inspection and shall be in operation when the spray paint booth is operating.
 (9 VAC 5-80-110 and Condition 3 of the NSR/MACT permit issued December 14, 2011)

124. Surface Coating Operations Requirements - PNTS-SHIP - (PNTS-CEP209) -

Limitations - The throughput of coatings to spray paint booth PNTS-CEP209 shall not exceed 1,645 gallons per year, calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.

(9 VAC 5-80-110 and Condition 5 of the NSR/MACT permit issued December 14, 2011)

125. Surface Coating Operations Requirements - PNTS-SHIP - (PNTS-CEP209) -

Limitations - Emissions from the operation of spray paint booth PNTS-CEP209 shall not exceed the limits specified below:

Volatile Organic Compounds	20.4 lbs/hr	2.3 tons/yr
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These emissions are derived from the estimated overall emission contribution from operating limits. Exceedance of the operating limits may be considered credible evidence of the exceedance of emission limits. Compliance with these emission limits may be determined as stated in Condition number 114.

(9 VAC 5-80-110 and Condition 12 of the NSR/MACT permit issued December 14, 2011)

126. Surface Coating Operations Requirements - PNTS-SHIP - (PNTS-CEP209) -

Limitations - Visible emissions from the spray paint booth PNTS-CEP209 exhaust shall not exceed 5 percent opacity as determined by the EPA Method 9 (reference 40 CFR 60, Appendix A). This condition applies at all times except during startup, shutdown, and malfunction.

(9 VAC 5-80-110 and Condition 14 of NSR/MACT permit issued December 14, 2011)

127. Surface Coating Operations Requirements - PNTS-SHIP - Limitations - MACT II -

The permittee shall comply with the requirements of 40 CFR 63 Subpart II (Shipbuilding and Ship Repair (Surface Coating)) and of 40 CFR 63 Subpart A, as specified in Table 1 of 40 CFR 63 Subpart II. The permittee should refer to the most current version of the applicable regulation for additional or revised requirements not included in this permit.

(9 VAC 5-80-110, 9 VAC 5-60-100, 40 CFR 63.780, and Condition 11 of the NSR/MACT permit issued December 14, 2011)

128. Surface Coating Operations Requirements - PNTS-SHIP - Limitations - MACT II -

The provisions of 40 CFR Part 63 Subpart II do not apply to "low-usage exempt" coatings used in volumes of less than 52.8 gallons per year for each coating, and 264 gallons per year of all such coatings. Coatings exempt under this condition shall be clearly labeled as "low-usage exempt".

(9 VAC 5-80-110, 9 VAC 5-60-100, and 40 CFR 63.781(b))

129. Surface Coating Operations Requirements - PNTS-SHIP - Limitations - MACT II - No
owner or operator shall cause or allow the application of any coating to a ship with an as-applied VOHAP content exceeding the applicable limit given in Table 2 of 40 CFR 63, Subpart II.

(9 VAC 5-80-110, 9 VAC 5-60-100, and 40 CFR 63.783(a))

130. Surface Coating Operations Requirements - PNTS-SHIP - Limitations - MACT II -

Each owner or operator of a new or existing affected source shall ensure that:

- a. All handling and transfer of VOHAP-containing materials to and from containers, tanks, vats, drums, and piping systems is conducted in a manner that minimizes spills.
- b. All containers, tanks, vats, drums, and piping systems are free of cracks, holes, and other defects and remain closed unless materials are being added to or removed from them.

(9 VAC 5-80-110, 9 VAC 5-60-100, and 40 CFR 63.783(b))

131. Surface Coating Operations Requirements - PNTS-SHIP - Limitations - MACT II - For each batch of coating that is received, the owner or operator shall:

- a. Determine the coating category and the applicable VOHAP limit as specified in 40 CFR 63.783(a).
- b. Certify the as-supplied VOC content of the coating.

(9 VAC 5-80-110, 9 VAC 5-60-100, and 40 CFR 63.785(a))

132. Surface Coating Operations Requirements - PNTS-SHIP - Limitations - MACT II - In lieu of testing each batch of coating, as applied, the owner or operator may determine compliance with the VOHAP limits using any combination of the procedures described in 40 CFR 63.785 (c)(1) (coatings to which thinning solvent will not be added), (c)(2) (coatings to which thinning solvent will be added - coating-by-coating compliance), (c)(3) (coatings to which the same thinning solvent will be added - group compliance), and (c)(4) (demonstration of compliance through an alternative test method). The procedure used for each coating shall be determined and documented prior to application.

(9 VAC 5-80-110, 9 VAC 5-60-100, and 40 CFR 63.785(b)(1))

B. Monitoring**133. Surface Coating Operations Requirements - PNTS-SHIP - Monitoring - MACT II -** For each compliance procedure used (40 CFR 63.785(c)(1), (2), (3), and (4)), the permittee shall maintain records to demonstrate compliance with the chosen procedures.

(9 VAC 5-80-110, 9 VAC 5-60-100, and 40 CFR 63.785(c))

C. Recordkeeping and Reporting**134. Surface Coating Operations Requirements - PNTS-SHIP - (All Units) - Recordkeeping and Reporting -** The permittee shall maintain records of emission data and operating parameters as necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Tidewater Regional Office. These records shall include, but are not limited to:

- a. Annual throughput of coatings (in gallons) to spray paint booth PNTS-CEP209, calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.

- b. Material Safety Data Sheets (MSDS), Certified Product Data Sheets (CPDS), or other vendor information as approved by DEQ showing VOC content and HAP content for each coating used in spray paint booth PNTS-CEP209.

These records shall be available for inspection by the DEQ and shall be current for at least the most recent five years.

(9 VAC 5-80-110 and Condition 17 of NSR/MACT permit issued December 14, 2011)

135. Surface Coating Operations Requirements - PNTS-SHIP - Recordkeeping and Reporting - MACT II

- Each owner or operator shall comply with the applicable recordkeeping and reporting requirements in 40 CFR 63.10(a), (b), (d), and (f).

(9 VAC 5-80-110, 9 VAC 5-60-100, and 40 CFR 63.788(a))

136. Surface Coating Operations Requirements - PNTS-SHIP - Recordkeeping and Reporting - MACT II

- Each owner or operator of an affected source shall compile records on a monthly basis and maintain those records for a minimum of 5 years. At a minimum, these records shall include:

- a. All documentation supporting initial notification;
- b. A copy of the affected source's approved implementation plan;
- c. The volume of each low-usage-exempt coating applied;
- d. Identification of the coatings used, their appropriate coating categories, and the applicable VOHAP limit;
- e. Certification of the as-supplied VOC content of each coating;
- f. A determination of whether containers meet the standards as described in 40 CFR 63.783(b)(2); and,
- g. The results of any Method 24 of Appendix A to 40 CFR Part 60 or approved VOHAP measurement test conducted on individual containers of coating, as applied.
- h. Additional information, as determined by the compliance procedure(s) described in 40 CFR 63.785(c) that the affected source followed.

(9 VAC 5-80-110, 9 VAC 5-60-100, 40 CFR 63.788(b)(2), and 40 CFR 63.788(b)(3))

137. Surface Coating Operations Requirements - PNTS-SHIP - Recordkeeping and Reporting - MACT II

- Before the 60th day following completion of each 6-month period after the compliance date specified in 40 CFR 63.784, each owner or operator shall submit a report to the Administrator for each of the previous 6 months. The report shall include all of the information that must be retained pursuant to paragraphs (b)(2) through (3) of 40 CFR 63.788, except for that information specified in paragraphs (b)(2)(i) through (ii), (b)(2)(v), (b)(3)(i)(A), (b)(3)(ii)(A), and (b)(3)(iii)(A). If a violation is detected, the source shall also report the information specified in paragraph (b)(4) of 40 CFR 63.788 for the reporting period during which the violation(s) occurred. To the extent possible, the report shall be organized according to the compliance procedure(s) followed each month by the source.

(9 VAC 5-80-110, 9 VAC 5-60-100, and 40 CFR 63.788(c))

VII.Surface Coating Operations Requirements: PNTS-OTHER

The surface coating activities associated with this section of the permit consist of the following emission units:

Grouped Emission Units - PNTS-OTHER (units not subject to Aerospace or Shipyard MACTs):

Emission Unit ID	Emission Unit Description	Pollution Control Device (PCD) Description
PNTS-SP356	Paint booth, ground support equipment – HVLP spray gun, aerosol, and hand application	Fabric filter
PNTS-W127	Paint spray booth for Material Handling Equipment (MHE), equipped with HVLP spray guns	Fabric filters
PNTS-X137	Paint booth, currently inactive	

A. Limitations

138. **Surface Coating Operations Requirements - PNTS-OTHER - (PNTS-W127) - Limitations** - Volatile Organic Compound (VOC) Content in all coating mixtures is limited to 3.5 lbs per gallon of coating, excluding water, as delivered to a coating application system. If any one coating mixture does exceed the VOC limit of 3.5 lbs VOC per gallon, then the daily volume-weighted average for that coating type shall not exceed 3.5 lbs VOC per gallon, excluding water.
 (9 VAC 5-80-110, 9 VAC 5-50-260, and Condition 3 of the NSR permit issued September 24, 2012)
139. **Surface Coating Operations Requirements - PNTS-OTHER - (PNTS-W127) - Limitations** - Particulate emissions from the paint spray booth (Ref. No. PNTS-W127) shall be controlled by fabric filters. The fabric filters shall be provided with adequate access for inspection and shall be in operation when the paint booth is operating.
 (9 VAC 5-80-110, 9 VAC 5-50-260, and Condition 4 of the NSR permit issued September 24, 2012)
140. **Surface Coating Operations Requirements - PNTS-OTHER - (PNTS-W127) - Limitations** - The throughput of coatings to the paint spray booth (Ref. No. PNTS-W127) shall not exceed 12,000 gallons per year, calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
 (9 VAC 5-80-110 and Condition 8 of the NSR permit issued September 24, 2012)
141. **Surface Coating Operations Requirements - PNTS-OTHER - (PNTS-W127) - Limitations** - The throughput of thinners and solvents used in all cleaning and purging operations shall not exceed 1,500 gallons per year, calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual totals for the preceding 11 months.
 (9 VAC 5-80-110, 9 VAC 5-50-260, and Condition 9 of the NSR permit issued September 24, 2012)

142. Surface Coating Operations Requirements - PNTS-OTHER - (PNTS-W127) -

Limitations - Emissions from the operation of the paint spray booth (Ref. No. PNTS-W127) shall not exceed the limits specified below:

Volatile Organic 49.2 lbs/hr 21.0 tons/yr

Compounds

These emissions are derived from the estimated overall emission contribution from operating limits. Exceedence of the operating limits may be considered credible evidence of the exceedence of emission limits. Compliance with these emission limits may be determined as stated in Condition numbers 128 and 130.

(9 VAC 5-80-110, 9 VAC 5-50-260, and Condition 10 of the NSR permit issued September 24, 2012)

143. Surface Coating Operations Requirements - PNTS-OTHER - (PNTS-W127) -

Limitations - Emissions from all cleaning and purging operations shall not exceed the limits specified below:

Volatile Organic 5.3 tons/yr

Compounds

These emissions are derived from the estimated overall emission contribution from operating limits. Exceedence of the operating limits may be considered credible evidence of the exceedence of emission limits. Compliance with these emission limits may be determined as stated in Condition number 131.

(9 VAC 5-80-110, 9 VAC 5-50-260, and Condition 11 of the NSR permit issued September 24, 2012)

144. Surface Coating Operations Requirements - PNTS-OTHER - (PNTS-W127) -

Limitations - Visible emissions from the paint spray booth (Ref. No. PNTS-W127) shall not exceed 5 percent opacity as determined by the EPA Method 9 (reference 40 CFR 60, Appendix A). This condition applies at all times except during startup, shutdown, and malfunction.

(9 VAC 5-80-110, 9 VAC 5-50-260, and Condition 12 of the NSR permit issued September 24, 2012)

145. Surface Coating Operations Requirements - PNTS-OTHER - (PNTS-SP356 and

PNTS-X137) - Limitations - No owner or other person shall cause or permit to be discharged into the atmosphere from any paint booth exhaust any visible emissions which exhibit greater than twenty (20) percent opacity, except for one six-minute period in any one hour of not more than thirty (30) percent opacity. Failure to meet the requirements of this condition because of the presence of water vapor shall not be a violation of this condition. (9 VAC 5-50-80 and 9 VAC 5-80-110)

146. Surface Coating Operations Requirements - PNTS-OTHER - (PNTS-SP356 and

PNTS-X137) - Limitations - The opacity standard shall apply at all times except during periods of startup, shutdown, and malfunction and as otherwise provided in an applicable standard.

(9 VAC 5-50-20 A.3 and 9 VAC 5-80-110)

147. **Surface Coating Operations Requirements - PNTS-OTHER - (PNTS-SP356 and PNTS-X137) - Limitations** - At all times, including periods of startup, shutdown and malfunction, owners shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with air pollution control practices for minimizing emissions. This condition applies to units identified as a booth.
(9 VAC 5-50-20 E and 9 VAC 5-80-110)
148. **Surface Coating Operations Requirements - PNTS-OTHER - (All Units) - Limitations** - At all times the disposal of volatile organic compounds shall be accomplished by taking measures, to the extent practicable, consistent with air pollution control practices for minimizing emissions. Volatile organic compounds shall not be intentionally spilled, discarded in sewers which are not connected to a treatment plant, or stored in open containers or handled in any other manner that would result in evaporation beyond that consistent with air pollution control practices for minimizing emissions.
(9 VAC 5-50-20 F, 9 VAC 5-80-110, and Condition 7 of the NSR permit issued September 24, 2012)
- B. Monitoring**
149. **Surface Coating Operations Requirements - PNTS-OTHER - (PNTS-W127) - Monitoring** - The paint spray booth (Ref. No. PNTS-W127) shall be equipped with a device to continuously measure the differential pressure drop across the fabric filters. The monitoring device shall be installed, maintained, calibrated, and operated in accordance with approved procedures which shall include, as a minimum, the manufacturer's written requirements or recommendations. The monitoring device shall be provided with adequate access for inspection and shall be in operation when the fabric filter is operating.
(9 VAC 5-80-110 and Condition 5 of the NSR permit issued September 24, 2012)
150. **Surface Coating Operations Requirements - PNTS-OTHER - (PNTS-W127) - Monitoring** - To ensure good performance, the monitoring device used to continuously measure differential pressure drop shall be observed by the permittee with a frequency of not less than once per week on weeks when the paint booth is in operation. The permittee shall keep a log of the observations from the monitoring device. The log shall include the name of the observer, the date and time the observation was made, an indication that the process was operating, the acceptable pressure drop range, the measure pressure drop, and a description of the corrective actions taken whenever a pressure drop outside the acceptable range was observed, including the date repairs were completed.
(9 VAC 5-80-110 and Condition 6 of the NSR permit issued September 24, 2012)

C. Recordkeeping

151. **Surface Coating Operations Requirements - PNTS-OTHER - (PNTS-W127) - Recordkeeping** - The permittee shall maintain records of emission data and operating parameters as necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Director, Tidewater Regional Office. These records shall include, but are not limited to:
- a. Annual throughput of coatings (in gallons) to the paint spray booth (Ref. No. PNTS-W127), calculated monthly as the sum of each consecutive 12-month period.

Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.

- b. Annual throughput of thinners and solvents (in gallons) used in all cleaning and purging operations, calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
- c. Material Safety Data Sheets (MSDS), Certified Product Data Sheets (CPDS), or other vendor information as approved by DEQ showing the VOC content, HAP content, and solids content for each coating, thinner, and solvent used.

These records shall be available for inspection by the DEQ and shall be current for the most recent five years.

(9 VAC 5-80-110 and Condition 13 of the NSR permit issued September 24, 2012)

D. Testing

152. Surface Coating Operations Requirements - PNTS-OTHER - (PNTS-W127) - Testing -

The paint spray booth shall be constructed so as to allow for emissions testing upon reasonable notice at any time, using appropriate methods. Sampling ports shall be provided when requested at the appropriate locations and safe sampling platforms and access shall be provided.

(9 VAC 5-80-110 and Condition 14 of the NSR permit issued September 24, 2012)

VIII. Abrasive Blasting and Fiberglass Operations Requirements

The abrasive blasting units associated with this section of the permit consist of the following emission units:

Emission Unit ID	Emission Unit Description	Pollution Control Device (PCD) Description	Applicable Permit Date
ABRA-SP356	Drive-in abrasive blasting room (installed 1/1987)	Baghouse	November 17, 2011
ABRA-V146	Helicopter blast booth	Cartridge filter	August 10, 2011

The fiberglass sanding and sawing operations associated with this section of the permit consist of the following emission units:

Emission Unit ID	Emission Unit Description	Pollution Control Device (PCD) Description	Applicable Permit Date
MISC-CEP209-100 & MISC-CEP209-101	Fiberglass sanding & sawing (installed 5/2000)	Fabric filters	December 14, 2011

A. Limitations

153. **Abrasive Blasting and Fiberglass Operations Requirements - (ABRA-SP356) - Limitations** - Particulate emissions from abrasive blasting room ABRA-SP356 shall be controlled by a baghouse. The baghouse shall be provided with adequate access for inspection and shall be in operation when the abrasive blasting room is operating. (9 VAC 5-80-110 and Condition 3 of the NSR permit issued November 17, 2011)
154. **Abrasive Blasting and Fiberglass Operations Requirements - (ABRA-SP356) – Limitations** - The throughput of plastic media blast (PMB) to abrasive blasting room ABRA-SP356 shall not exceed 312 tons per year, calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months. (9 VAC 5-80-110 and Condition 4 of the NSR permit issued November 17, 2011)
155. **Abrasive Blasting and Fiberglass Operations Requirements - (ABRA-SP356) - Limitations** - Visible emissions from abrasive blasting room ABRA-SP356 shall not exceed 20 percent opacity except during one six-minute period in any one hour in which visible emissions shall not exceed 30 percent opacity as determined by the EPA Method 9 (reference 40 CFR 60, Appendix A). This condition applies at all times except during startup, shutdown, and malfunction. (9 VAC 5-80-110 and Condition 5 of the NSR permit issued November 17, 2011)
156. **Abrasive Blasting and Fiberglass Operations Requirements - (ABRA-SP356) - Limitations** - Abrasive blasting room ABRA-SP356 shall be constructed so as to allow for emissions testing upon reasonable notice at any time, using appropriate methods. Sampling ports shall be provided when requested at the baghouse stack exhaust and safe sampling platforms and access shall be provided. (9 VAC 5-80-110 and Condition 7 of the NSR permit issued November 17, 2011)

157. Abrasive Blasting and Fiberglass Operations Requirements - (ABRA-V146) -

Limitations - Particulate matter emissions from blast booth ABRA-V146 shall be controlled by a cartridge filter. The filter shall be provided with adequate access for inspection and shall be in operation when the blast booth is operating.

(9 VAC 5-80-110 and Condition 4 of the NSR/MACT permit issued August 10, 2011)

158. Abrasive Blasting and Fiberglass Operations Requirements - (ABRA-V146) -

Limitations - The throughput of abrasive blast material to blast booth ABRA-V146 shall not exceed 180,000 pounds per year (total, fresh and recycle), calculated monthly as the sum of each consecutive 12 month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual totals for the preceding 11 months.

(9 VAC 5-80-110 and Condition 9 of the NSR/MACT permit issued August 10, 2011)

159. Abrasive Blasting and Fiberglass Operations Requirements - (ABRA-V146) -

Limitations - Visible emissions from blast booth ABRA-V146 shall not exceed 5 percent opacity as determined by the EPA Method 9 (reference 40 CFR 60, Appendix A). This condition applies at all times except during startup, shutdown, and malfunction.

(9 VAC 5-80-110 and Condition 15 of the NSR/MACT permit issued August 10, 2011)

160. Abrasive Blasting and Fiberglass Operations Requirements - (MISC-CEP209-100 and MISC-CEP209-101) - Limitations

- Particulate emissions from the fiberglass sanding and sawing equipment (Ref. Nos. MISC-CEP209-100 and MISC-CEP209-101) shall be controlled by fabric filters. The fabric filters shall be provided with adequate access for inspection and shall be in operation when the fiberglass sanding and sawing equipment is operating.

(9 VAC 5-80-110 and Condition 4 of the NSR permit issued December 14, 2011)

161. Abrasive Blasting and Fiberglass Operations Requirements - (MISC-CEP209-100 and MISC-CEP209-101) - Limitations

- The combined throughput of fiberglass resin, hardener, and mesh used in the fiberglass sanding and sawing equipment systems (Ref. Nos. MISC-CEP209-100 and MISC-CEP209-101) shall not exceed 2,105 pounds per year, calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.

(9 VAC 5-80-110 and Condition 6 of the NSR permit issued December 14, 2011)

162. Abrasive Blasting and Fiberglass Operations Requirements - (MISC-CEP209-100 and MISC-CEP209-101) - Limitations

- Visible emissions from each fiberglass sanding and sawing equipment system (Ref. No. MISC-CEP209-100 and MISC-CEP209-101) fabric filter exhaust shall not exceed 5 percent opacity as determined by the EPA Method 9 (reference 40 CFR 60, Appendix A). This condition applies at all times except during startup, shutdown, and malfunction.

(9 VAC 5-80-110 and Condition 15 of the NSR permit issued December 14, 2011)

B. Monitoring

163. Abrasive Blasting and Fiberglass Operations Requirements - (ABRA-V146) -

Monitoring - The cartridge filter for blast booth ABRA-V146 shall be equipped with a device to measure the pressure drop across the filter. The monitoring device shall be installed, maintained, calibrated, and operated in accordance with approved procedures which shall include, as a minimum, the manufacturer's written requirements or recommendations. The monitoring device shall be provided with adequate access for inspection and shall be in operation when the booths are operating.

(9 VAC 5-80-110 and Condition 6 of the NSR/MACT permit issued August 10, 2011)

164. Abrasive Blasting and Fiberglass Operations Requirements - (ABRA-V146) -

Monitoring - To ensure good performance, the monitoring device used to measure pressure drop across the cartridge filter of blast booth ABRA-V146 shall be observed by the permittee with a frequency of not less than once per week on weeks when the booths are in operation. The permittee shall keep a log of the observations from the monitoring devices. The log shall include the name of the observer, the date and time the observation was made, an indication that the process was operating, the acceptable pressure drop range, the measured pressure drop, and a description of the corrective actions taken whenever a pressure drop outside the acceptable range was observed, including the date repairs were completed.

(9 VAC 5-80-110 and Condition 7 of the NSR/MACT permit issued August 10, 2011)

165. Abrasive Blasting and Fiberglass Operations Requirements (ABRA-V146) -

Monitoring - MACT GG - If a dry particulate filter or a conventional waterwash system are used while depainting operations are occurring, the pressure drop across the particulate filters or the water flow rate through the conventional waterwash system shall be continuously monitored. The pressure drop or the water flow rate shall be read and recorded once per shift. If a pumpless waterwash system is used while depainting operations are occurring, the parameter(s) recommended by the booth manufacturer that indicate booth performance shall be measured and recorded once per shift. This condition applies to ABRA-V146.

(9 VAC 5-60-100, 9 VAC 5-80-110, and 40 CFR 63.751(d))

166. Abrasive Blasting and Fiberglass Operations Requirements - (ABRA-SP356 and

ABRA-V146) - Monitoring - The permittee shall perform a monthly visual emissions observation on each stack exhaust for each abrasive blasting area (Emission Units ABRA-SP356 and ABRA-V146) during daylight hours and normal operation. If such visual observations indicate any visible emissions, the permittee shall take corrective action to correct the cause of the visible emissions. If such corrective actions fail to eliminate the visible emissions, the permittee shall conduct a visible emissions evaluation (VEE) using 40 CFR Part 60, Appendix A, Method 9 for six minutes. If the six-minute VEE opacity average exceeds 50% of the opacity limit, the VEE shall continue for an additional 12 minutes. If any of the six-minute averages during the 18 minutes exceeds the opacity limit, the VEE shall continue for one hour from initiation on the stack to determine compliance with the opacity limit. Results of the observations/VEEs shall be recorded in an operation log. Records of observations shall include the following:

The name of the observer,

The date and time of the observation,

An indication that the process was operating,

An indication of the presence or absence of visible emissions, and

Any corrective action taken to eliminate visible emissions, including the date and time the process was shut down and/or repairs were completed.

If a VEE is conducted, records shall be in accordance with Method 9 (40 CFR 60, Appendix A). The records shall be kept at the facility and made available for inspection by the DEQ for the most recent five (5) year period.
(9 VAC 5-80-110 E)

167. **Abrasive Blasting and Fiberglass Operations Requirements - (MISC-CEP209-100 and MISC-CEP209-101) - Monitoring** - The permittee shall perform an annual visual emissions observation on each stack exhaust for each fiberglass sanding and sawing operation (Emission Units MISC-CEP209-100 and MISC-CEP209-101) during daylight hours and normal operation. If such visual observations indicate any visible emissions, the permittee shall take corrective action to correct the cause of the visible emissions. If such corrective actions fail to eliminate the visible emissions, the permittee shall conduct a visible emissions evaluation (VEE) using 40 CFR Part 60, Appendix A, Method 9 for six minutes. If the six-minute VEE opacity average exceeds 50% of the opacity limit, the VEE shall continue for an additional 12 minutes. If any of the six-minute averages during the 18 minutes exceeds the opacity limit, the VEE shall continue for one hour from initiation on the stack to determine compliance with the opacity limit. Results of the observations/VEEs shall be recorded in an operation log. Records of observations shall include the following:

The name of the observer,

The date and time of the observation,

An indication that the process was operating,

An indication of the presence or absence of visible emissions, and

Any corrective action taken to eliminate visible emissions, including the date and time the process was shut down and/or repairs were completed.

If a VEE is conducted, records shall be in accordance with Method 9 (40 CFR 60, Appendix A). The records shall be kept at the facility and made available for inspection by the DEQ for the most recent five (5) year period.
(9 VAC 5-80-110 E)

C. Recordkeeping

168. **Abrasive Blasting and Fiberglass Operations Requirements - (All Units) - Recordkeeping** - The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Director, Tidewater Regional Office. These records shall include, but are not limited to:

- a. The annual throughput of plastic media blast (PMB) (in tons) to abrasive blasting room ABRA-SP356, calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
- b. The annual throughput of blast material (in pounds) to blast booth ABRA-V146, calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual totals for the preceding 11 months;
- c. Records of monitoring device observations, as required by Condition 154.
- d. Annual combined throughput of fiberglass resin, hardener, and mesh (in pounds) used in the fiberglass sanding and sawing equipment systems (Ref. Nos. MISC-CEP209-100 and MISC-CEP209-101), calculated monthly as the sum of each consecutive 12-month period. Compliance with the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
- e. Records of visual evaluations, visible emissions evaluations, and any corrective action taken, as required by Conditions 156 and 157.

These records shall be available at the facility for inspection by the DEQ and shall be current for the most recent five (5) years.

(9 VAC 5-80-110, Condition 16 of the NSR/MACT permit issued August 10, 2011, Condition 6 of the NSR permit issued November 17, 2011, and Condition 17 of the NSR permit issued December 14, 2011)

D. Testing

169. **Abrasive Blasting and Fiberglass Operations Requirements - (ABRA-V146) - Testing -**
Unit ABRA-V146 shall be constructed so as to allow for emissions testing and monitoring upon reasonable notice at any time, using appropriate methods. Test ports shall be provided when requested at the appropriate locations.
(9 VAC 5-50-30 F, 9 VAC 5-80-110, and Condition 17 of the August 10, 2011 NSR permit)

IX. Woodworking Operations Requirements

The woodworking operations associated with this section of the permit consist of the following emission units:

Emission Unit ID	Emission Unit Description	Pollution Control Device (PCD) Description
WOOD-GRP1:	Woodshops with outside vent	Cyclones and/or Baghouses
WOOD-A81		
WOOD-LP167		
WOOD-NH31		
WOOD-SP86		
WOOD-W131		
WOOD-PNT1	Wood NESHAP sources – hand application	N/A

A. Limitations

170. **Woodworking Operations Requirements - (WOOD-GRP1) - Limitations - Rule 4-17 -**
 Particulate emissions caused by any woodworking operation (WOOD-GRP1) shall not be discharged into the atmosphere without providing, as a minimum, for their collection, adequate duct work and properly designed collectors, or such other devices, as approved by the board.
 (9 VAC 5-40-2270 A, 9 VAC 5-50-10 D, and 9 VAC 5-80-110)
171. **Woodworking Operations Requirements - (WOOD-GRP1) - Limitations - Rule 4-17 -**
 Particulate emissions from each woodworking operation (WOOD-GRP1) shall not exceed 0.05 grains per standard cubic feet of exhaust gas.
 (9 VAC 5-40-2270 B, 9 VAC 5-50-10 D, and 9 VAC 5-80-110)
172. **Woodworking Operations Requirements - (WOOD-GRP1) - Limitations -** Visible emissions from each woodworking operation (WOOD-GRP1) shall not exceed 20 percent opacity except during one six-minute period in any one hour in which visible emissions shall not exceed 30 percent opacity, as determined by EPA Method 9 (reference 40 CFR 60, Appendix A).
 (9 VAC 5-50-20 A.2, 9 VAC 5-50-80, and 9 VAC 5-80-110)
173. **Woodworking Operations Requirements - (WOOD-GRP1) - Limitations -** The opacity standard shall apply at all times except during periods of startup, shutdown, and malfunction and as otherwise provided in an applicable standard.
 (9 VAC 5-50-20 A.3 and 9 VAC 5-80-110)
174. **Woodworking Operations Requirements - (WOOD-PNT1) - Limitations - MACT JJ -**
 The permittee shall comply with the requirements of 40 CFR 63 Subpart JJ (Wood Furniture Manufacturing Operations) and of 40 CFR 63 Subpart A, as identified in Table 1 of 40 CFR 63 Subpart JJ. This condition applies to WOOD-PNT1.
 (9 VAC 5-80-110, 9 VAC 5-60-100, and 40 CFR 63.800(d))
175. **Woodworking Operations Requirements - (WOOD-PNT1) - Limitations - MACT JJ -**
 The owner or operator of a source that meets the definition for an incidental wood furniture manufacturer shall maintain purchase or usage records demonstrating that the source meets

the definition in 40 CFR 63.801 of "incidental wood furniture manufacturer", but the source shall not be subject to any other provisions of 40 CFR part 63 Subpart JJ. This condition applies to WOOD-PNT1.

(9 VAC 5-80-110, 9 VAC 5-60-100, 40 CFR 63.800(a), and 40 CFR 63.801)

B. Monitoring

176. Woodworking Operations Requirements - (WOOD-GRP1) - Monitoring - An annual internal inspection shall be conducted at least once each 12 consecutive calendar months on each cyclone and/or baghouse for each woodworking facility (WOOD-GRP1) by the permittee to ensure structural integrity. For units where there is no access to perform an internal inspection, external inspections are acceptable. Each cyclone and/or baghouse shall be maintained and operated according to the manufacturer's recommendations.
(9 VAC 5-80-110)

177. Woodworking Operations Requirements - (WOOD-GRP1) - Monitoring - The permittee shall perform an annual (at least once each 12 consecutive calendar months) visual emissions observation for the exhaust at each woodworking facility (WOOD-GRP1) during normal operations. If such visual observations indicate any visible emissions, the permittee shall take corrective action to correct the cause of the opacity. If such corrective actions fail to eliminate the visible emissions, the permittee shall conduct a visible emission evaluation (VEE) using 40 CFR Part 60, Appendix A, Method 9 for six minutes. If the six-minute VEE average exceeds 10%, the VEE shall continue for an additional 12 minutes. If any six-minute average during the 18 minutes exceeds 20%, the VEE shall continue for one hour from initiation to determine compliance with the opacity limit. Results of the observations/VEEs shall be recorded in an operation log. Records of observations shall include the following:

The name of the observer,

The date and time of the observation,

An indication that the process was operating,

An indication of the presence or absence of visible emissions, and

Any corrective action taken to eliminate visible emissions, including the date and time the process was shut down and/or repairs were completed.

If a VEE is conducted, records shall be in accordance with Method 9 (40 CFR 60, Appendix A). The records shall be kept at the facility and made available for inspection by the DEQ for the most recent five (5) year period.

(9 VAC 5-80-110 E)

C. Recordkeeping

178. Woodworking Operations Requirements - (WOOD-GRP1) - Recordkeeping - The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Director, Tidewater Regional Office. These records shall include, but are not limited to:

- a. Annual inspection results of the cyclones and/or baghouses;
- b. Records of visual observations, visible emissions evaluations and any corrective action taken;
- c. DEQ-approved, pollutant-specific emission factors and equations used to show compliance with the emission limits contained in Part A of this section of this permit.

These records shall be available at the facility for inspection by the DEQ and shall be current for the most recent five (5) years.

(9 VAC 5-80-110)

179. Woodworking Operations Requirements - (WOOD-GRP1) - Recordkeeping - MACT

JJ - The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Director, Tidewater Regional Office. These records shall include, but are not limited to purchase or usage records demonstrating that the source meets the definition of "incidental wood furniture manufacturer". These records shall be available at the facility for inspection by the DEQ and shall be current for the most recent five years. This condition applies to WOOD-PNT1.

(9 VAC 5-80-110, 9 VAC 5-60-100, and 40 CFR 63.800(a))

X. Gasoline Pumps (Service Stations) Requirements

The gasoline pumps associated with this section of the permit consist of the following emission units:

Emission Unit ID	Emission Unit Description	Pollution Control Device (PCD) Description
GSTA-GRP1:	Commercial gasoline/E85 service stations	Stage 1 Vapor Recovery
GSTA-CD11		
GSTA-CD16 (E-85 dispensing)		
GSTA-CEP76		
GSTA-MCE224		
GSTA-U113		
GSTA-V55		

For the purpose of this section, “gasoline” means any petroleum distillate having a Reid vapor pressure of four pounds per square inch or greater. This includes E-85 dispensing operations.

A. Limitations

180. **Gasoline Pumps (Service Stations) Requirements - (GSTA-GRP1) - Limitations - Rule 4-37** No owner or other person shall transfer or permit the transfer of gasoline from any tank truck into any stationary source storage tank unless such tank is equipped with a vapor control system (Stage I) that will remove, destroy or prevent the discharge into the atmosphere of at least 90% by weight of volatile organic compound emissions. Achievement of this emission standard shall be by a submerged fill pipe. Compliance with this condition shall be determined by Condition 173.
 (9 VAC 5-40-5220 E and 9 VAC 5-80-110)
181. **Gasoline Pumps (Service Stations) Requirements - (GSTA-GRP1) - Limitations -** At all times, including periods of startup, shutdown and malfunction, the gasoline pumps and any associated air pollution control equipment shall, to the extent practicable, be maintained and operated in a manner consistent with air pollution control practices for minimizing emissions.
 (9 VAC 5-50-20 E and 9 VAC 5-80-110)
182. **Gasoline Pumps (Service Stations) Requirements - (GSTA-GRP1) - Limitations -** At all times, the disposal of volatile organic compounds shall be accomplished by taking measures, to the extent practicable, consistent with air pollution control practices for minimizing emissions. Volatile organic compounds shall not be intentionally spilled, discarded in sewers which are not connected to a treatment plant, or stored in open containers or handled in any other manner that would result in evaporation beyond that consistent with air pollution control practices for minimizing emissions.
 (9 VAC 5-50-20 F and 9 VAC 5-80-110)

B. Monitoring and Recordkeeping

183. **Gasoline Pumps (Service Stations) Requirements - (GSTA-GRP1) - Monitoring and Recordkeeping** - To ensure the Stage I connector on the tank is operating properly, the permittee shall do one of the following at least annually (once every 12 consecutive months): observe a gasoline delivery to each station in GSTA-GRP1 for the Stage I vapor recovery system usage or obtain documentation from delivery personnel that the Stage I connector was utilized. The observations or documentation shall be recorded, kept at the facility, and made available for inspection by the DEQ for the most recent five (5) year period.
(9 VAC 5-80-110 E)

XI. Degreasing Operations Requirements

The degreasing operations associated with this section of the permit consist of the following emission units:

Emission Unit ID	Emission Unit Description
DEGS-GRP1:	
DEGS-A81	Solvent parts washer
DEGS-LP167-1	Solvent parts washer
DEGS-LP167-2	Solvent parts washer
DEGS-MCA604	Solvent parts washer
DEGS-MCA612	Solvent parts washer
DEGS-NH94	Solvent parts washer
DEGS-P1	Solvent parts washer
DEGS-P76	Solvent parts washer
DEGS-SP123	Solvent parts washer
DEGS-SP300-400	Solvent parts washer
DEGS-SP300-414	Solvent parts washer
DEGS-SP300-41R	Solvent parts washer
DEGS-SP300-500b	Solvent parts washer
DEGS-SP300-500c	Solvent parts washer
DEGS-SP300-500d	Solvent parts washer
DEGS-SP300-52a	Solvent parts washer
DEGS-SP300-700	Solvent parts washer
DEGS-SP300-PCS10	Solvent parts washer
DEGS-SP356-PCS10	Solvent parts washer
DEGS-U126-001	Solvent parts washer
DEGS-U126-176	Solvent parts washer
DEGS-V147	Solvent parts washer
DEGS-W7-145	Solvent parts washer
DEGS-W7-146	Solvent parts washer
DEGS-Z105	Solvent parts washer
DEGS-Z309	Solvent parts washer

A. Limitations

184. **Degreasing Operations Requirements - (DEGS-GRP1) - Limitations - Rule 4-24** -Vapor control is required for each cold cleaner (DEGS-GRP1) to remove, destroy, or prevent the discharge into the atmosphere of at least 85% by weight of volatile organic compound emissions. Achievement of the 85% vapor control shall be done by the following:

- a. Covers or enclosed remote reservoirs;
- b. Drainage facilities to collect and return solvent to a closed container or a solvent cleaning machine;
- c. A permanent label, summarizing the operating procedures in 9 VAC 5-40-3290 C (2)(a-c) on/near the cold cleaning unit(s);
- d. If used, the solvent spray should be a solid, fluid stream (not a fine, atomized or shower type spray) and at a pressure which does not cause excessive splashing.

(9 VAC 5-40-3280 C(1) and C(2), 9 VAC 5-40-3290 (C) and (D), and 9 VAC 5-80-110)

185. Degreasing Operations Requirements - (DEGS-GRP1) - Limitations - Rule 4-24 The following operating procedures for the cold cleaning units (DEGS-GRP1) shall be followed:

- a. Waste solvent should not be disposed of or transferred to another party, such that greater than 20% of the waste (by weight) can evaporate to the atmosphere. Waste solvent shall be stored in closed containers only.
- b. The cold cleaning unit cover should be closed whenever not handling parts in the cold cleaner.
- c. Cleaned parts should drain for at least 15 seconds or until dripping ceases.

(9 VAC 5-40-3290 C(2)(a-c) and 9 VAC 5-80-110)

186. Degreasing Operations Requirements - (DEGS-GRP1) - Limitations - Rule 4-24 - Disposal of waste solvent from the cold cleaning units (DEGS-GRP1) shall be done by one of the following:

- a. Reclamation (either by outside services or in-house), or
- b. Incineration.

(9 VAC 5-40-3290 D and 9 VAC 5-80-110)

187. Degreasing Operations Requirements - (DEGS-GRP1) - Limitations - At all times, the disposal of volatile organic compounds shall be accomplished by taking measures, to the extent practicable, consistent with air pollution control practices for minimizing emissions. Volatile organic compounds shall not be intentionally spilled, discarded in sewers which are not connected to a treatment plant, or stored in open containers or handled in any other manner that would result in evaporation beyond that consistent with air pollution control practices for minimizing emissions.

(9 VAC 5-50-20 F and 9 VAC 5-80-110)

B. Monitoring

188. Degreasing Operations Requirements - (DEGS-GRP1) - Monitoring - Each degreasing unit (DEGS-GRP1) will be inspected once per calendar year to ensure the label with the operating procedures is placed on or near each degreasing unit.

(9 VAC 5-40-3280 C(1) and C(2), 9 VAC 5-40-3290 (C) and (D), and 9 VAC 5-80-110)

189. Degreasing Operations Requirements - (DEGS-GRP1) - Monitoring Each degreasing unit (DEGS-GRP1) will be inspected once per calendar year to ensure that each has a cover or enclosed remote reservoir, and waste solvent from each unit is to be stored in closed

containers.

(9 VAC 5-40-3280 C(1) and C(2), 9 VAC 5-40-3290 (C) and (D), and 9 VAC 5-80-110 E)

C. Recordkeeping

190. **Degreasing Operations Requirements - (DEGS-GRP1) - Recordkeeping** - The permittee shall maintain records of the following items for DEGS-GRP1:

- a. Annual inspection results and any corrective actions taken;
- b. Methods of waste solvent disposal.

These records shall be available at the facility for inspection by the DEQ and shall be current for the most recent five (5) years.

(9 VAC 5-80-110)

XII. Receipt of Off-Site Waste NESHAP Requirements and Container NESHAP Requirements

A. Limitations

191. **Receipt of Off-Site Waste NESHAP Requirements - Limitations - MACT DD** - For a container having a design capacity greater than 0.1 m³ and less than or equal to 0.46 m³, the owner or operator must control air emissions from the container in accordance with the requirements of 40 CFR 63.688(b)(1)(i): Container Level 1 controls as specified in 40 CFR Part 63 Subpart PP - National Emission Standards for Containers.
(9 VAC 5-80-110, 9 VAC 5-60-100, and 40 CFR 63 Subpart DD)
192. **Receipt of Off-Site Waste NESHAP Requirements - Limitations - MACT DD** - The provisions of 40 CFR Part 63 Subpart A, as specified in Table 2 of 40 CFR 63 Subpart DD, apply for containers affected by 40 CFR 63 Subpart DD.
(9 VAC 5-80-110, 9 VAC 5-60-100, and 40 CFR 63.680 (f))
193. **Container NESHAP Requirements - Limitations - MACT PP** - 40 CFR 63.922 applies to owners and operators subject to 40 CFR Part 63 Subpart PP and required to control air emissions from containers using Container Level 1 controls.
(9 VAC 5-80-110, 9 VAC 5-60-100, and 40 CFR 63.922(a))
194. **Container NESHAP Requirements - Limitations - MACT PP** - A container using Container Level 1 controls is one listed in 40 CFR 63.922 (b)(1), (b)(2), or (b)(3).
(9 VAC 5-80-110 and 40 CFR 63.922(b))
195. **Container NESHAP Requirements - Limitations - MACT PP** - A container used to meet the requirements of either 40 CFR 63.922(b)(2) or (b)(3) shall be equipped with covers and closure devices, as applicable to the container, that are composed of suitable materials to minimize exposure of the regulated-material to the atmosphere and to maintain the equipment integrity for as long as it is in service.
(9 VAC 5-80-110, 9 VAC 5-60-100, and 40 CFR 63.922(c))
196. **Container NESHAP Requirements - Limitations - MACT PP** - Whenever a regulated-material is in a container using Container Level 1 controls, the owner or operator shall install all covers and closure devices for the container, and secure and maintain each closure device in the closed position except as identified in 40 CFR 63.922 (d)(1), (d)(2), (d)(3), (d)(4), or (d)(5).
(9 VAC 5-80-110, 9 VAC 5-60-100, and 40 CFR 63.922(d))
197. **Container NESHAP Requirements - Limitations - MACT PP** - The owner or operator shall inspect containers using Container Level 1 controls in accordance with the procedures specified in 40 CFR 63.926(a).
(9 VAC 5-80-110, 9 VAC 5-60-100, and 40 CFR 63.922(e))
198. **Container NESHAP Requirements - Limitations - MACT PP** - For the purposes of compliance with 40 CFR 63.922(b)(1), containers shall be used that meet the applicable U. S. DOT regulation on packaging hazardous materials for transportation as given in 40 CFR 63.922(f)(1), (f)(2), (f)(3), or (f)(4).
(9 VAC 5-80-110, 9 VAC 5-60-100, and 40 CFR 63.922(f))

B. Monitoring

199. **Container NESHAP Requirements - Monitoring - MACT PP** - Owners and operators of containers using either Container Level 1 or Container Level 2 controls in accordance with the provisions of 40 CFR 63.922 and 40 CFR 63.923, shall inspect the container and its cover and closure device as described in 40 CFR 63.926(a).
(9 VAC 5-80-110, 9 VAC 5-60-100, and 40 CFR 63.926(a))

C. Recordkeeping and Reporting

200. **Receipt of Off-Site Waste NESHAP Requirements - Recordkeeping and Reporting - MACT DD** - The owner or operator subject to 40 CFR Part 63 Subpart DD shall comply with the recordkeeping and reporting requirements as specified in Table 2 of 40 CFR Part 63 Subpart DD.
(9 VAC 5-80-110, , 9 VAC 5-60-100, 40 CFR 63.696(a), and 40 CFR 63.697(a)(2))

XIII. Facility Wide Conditions

A. Testing

201. **Facility Wide Conditions - Testing** - The permitted facility shall be constructed so as to allow for emissions testing at any time using appropriate methods. Upon request from the Department, test ports shall be provided at the appropriate locations.
(9 VAC 5-40-30, 9 VAC 5-50-30, and 9 VAC 5-80-110)
202. **Facility Wide Conditions - Testing** If testing is conducted in addition to the monitoring specified in this permit, the permittee shall use the appropriate method(s) in accordance with procedures approved by the DEQ.
(9 VAC 5-80-110)

XIV. Insignificant Emission Units

203. **Insignificant Emission Units** - The following emission units at the facility are identified in the application as insignificant emission units under 9 VAC 5-80-720:

Emission Unit No.	Emission Unit Description	Citation	Pollutant(s) Emitted (9 VAC 5-80-720 B)	Rated Capacity (9 VAC 5-80-720 C)
Grouped Units				
ABRA-GRP1	Vented abrasive blast gloveboxes	9 VAC 5-80-720 B	Compounds of Antimony, Cadmium, Chromium, Cobalt, Cyanide, Lead, Manganese, & Nickel; PM/PM10, Phosphorus	N/A
BOIL-GRP-#2	No. 2 Fuel Oil-Fired Hot Water Boilers*	9 VAC 5-80-720 C.2.b	N/A	< 1.6 MMBtu/hr each
BOIL-GRP-NG	Natural Gas-Fired Hot Water Boilers*	9 VAC 5-80-720 C.2.a	N/A	< 1.6 MMBtu/hr each
CLNO-GRP-O	Paint Gun Washers – Other	9 VAC 5-80-720 B	PM, PM10, VOC	N/A
FURN-GRP1	Natural gas-fired furnaces	9 VAC 5-80-720 C	N/A	< 10 MMBtu/hr
FURN-GRP2	Propane-fired furnaces	9 VAC 5-80-720 C	N/A	<1 MMBtu/hr
FURN-GRP3	#2 oil-fired furnaces	9 VAC 5-80-720 C	N/A	< 1MMBtu/hr
GSTA-GRP3	Gasoline dispensing (no VR)	9 VAC 5-80-720 B	2,2,4- trimethylpentane; 2-Methoxy-2-methyl propane; Benzene, Cumene, Ethylbenzene, Hexane, Toluene, VOC, Xylenes	N/A
GSTA-GRP4	Kerosene and Jet Kerosene (JP-5) dispensing	9 VAC 5-80-720 B	Ethylbenzene, Naphthalene, Toluene, VOC, Xylenes	N/A
PETO-GRP1	Petroleum fueling, defueling, and/or distribution: JP-5	9 VAC 5-80-720 B	Ethylbenzene, Naphthalene, Toluene, VOC, Xylenes	N/A
PETO-GRP2	Petroleum fueling, defueling, and/or distribution: F-76 (diesel)	9 VAC 5-80-720 B	Naphthalene, VOCs	N/A
PETO-GRP3	Petroleum fueling, defueling, and/or distribution: lube oil	9 VAC 5-80-720 B	VOCs, VOHAPS	N/A
TNKA-GRP1	Diesel/fuel oil #2	9 VAC 5-80-720 B	VOCs, VOHAPS	N/A
TNKA-GRP2	Gasoline storage (no stage I vapor recovery)	9 VAC 5-80-720 B	2,2,4- trimethylpentane; 2-Methoxy-2-methyl propane; Benzene, Cumene, Ethylbenzene, Hexane, Toluene, VOC, Xylenes	N/A
TNKA-GRP3	Kerosene and jet kerosene (JP-5)	9 VAC 5-80-720 B	Ethylbenzene, Naphthalene, Toluene, VOC, Xylenes	N/A
TNKA-GRP4	Lube oil	9 VAC 5-80-720 B	N/A	N/A
TNKA-GRP5	Used oil	9 VAC 5-80-720 B	VOCs, VOHAPS	N/A

Emission Unit No.	Emission Unit Description	Citation	Pollutant(s) Emitted (9 VAC 5-80-720 B)	Rated Capacity (9 VAC 5-80-720 C)
TNKA-GRP6	Various fuel oils for steam plants	9 VAC 5-80-720 B	N/A	N/A
TNKU-GRP1	Diesel/fuel oil #2	9 VAC 5-80-720 B	VOCs, VOHAPS	N/A
TNKU-GRP2	Gasoline storage (stage I vapor recovery)	9 VAC 5-80-720 B	2,2,4- trimethylpentane; 2-Methoxy-2-methyl propane; Benzene, Cumene, Ethylbenzene, Hexane, Toluene, VOC, Xylenes	N/A
TNKU-GRP2b	Gasoline storage (no vapor recovery)	9 VAC 5-80-720 B	2,2,4- trimethylpentane; 2-Methoxy-2-methyl propane; Benzene, Cumene, Ethylbenzene, Hexane, Toluene, VOC, Xylenes	N/A
TNKU-GRP3	Kerosene and jet kerosene (JP-5)	9 VAC 5-80-720 B	Ethylbenzene, Naphthalene, Toluene, VOC, Xylenes	N/A
TNKU-GRP4	Lube oil	9 VAC 5-80-720 B	VOCs, VOHAPS	N/A
TNKU-GRP5	Used oil	9 VAC 5-80-720 B	VOCs, VOHAPS	N/A
TNKU-GRP6	Various fuel oils for steam plants	9 VAC 5-80-720 B	N/A	N/A
WSTL-GRP1	Oil/Water Separation Units	9 VAC 5-80-720 B	Benzene, Hexane, Naphthalene, VOC	N/A
WSTS-GRP1	Paper Shredders w/ Cyclone	9 VAC 5-80-720 B	PM/PM-10	N/A
WSTS-GRP2	Paper Shredders w/ Cyclone/Baghouse	9 VAC 5-80-720 B	PM/PM-10	N/A
Individual Units				
CHMC-CEP200-002	Acid Dip Tank	9 VAC 5-80-720 B	PM, PM10	N/A
CHMC-CEP200-003	Neutralization Tank	9 VAC 5-80-720 B	PM, PM10	N/A
CHMC-SP234	Parachute Hand Wipe Cleaning	9 VAC 5-80-720 B	Methyl ethyl ketone, VOC	N/A
CHMC-W7	Chemical cleaning with sodium hydroxide	9 VAC 5-80-720 B	VOCs, VOHAPS	N/A
ENGT-V88	Small Boat Outboard Motor Testing	9 VAC 5-80-720 B	Acetaldehyde, Benzene, CO, Chlorine, Ethylbenzene, Formaldehyde, Hexane, NOx, PM/PM10, Sox, Toluene, VOC, Xylenes	N/A
FIRI-CEP161-005	Indoor Firing Range	9 VAC 5-80-720 B	Lead, PM, PM10	N/A
FIRI-CEP161-006	Indoor Firing Range	9 VAC 5-80-720 B	Lead, PM, PM10	N/A
FIRI-MCA604-004	Indoor Firing Range	9 VAC 5-80-720 B	Lead, PM, PM10	N/A
MISC-CD3	Dental Clinic	9 VAC 5-80-720 B	PM, PM10	N/A
MISC-CEP200-1	Flex Hose Cutting	9 VAC 5-80-720 B	PM, PM10	N/A
MISC-CEP200-2	Metal Spray Booth	9 VAC 5-80-720 B	PM, PM10	N/A
MISC-CEP200-3	Cable moulding aka portsmouth plug making	9 VAC 5-80-720 B	VOCs, VOHAPS	N/A
MISC-CEP200-4	Ultrasonic Dryer	9 VAC 5-80-720 B	VOC	N/A

Emission Unit No.	Emission Unit Description	Citation	Pollutant(s) Emitted (9 VAC 5-80-720 B)	Rated Capacity (9 VAC 5-80-720 C)
MISC-CEP200-5	Fiberglass Pipe Insulation Cutting	9 VAC 5-80-720 B	PM, PM10	N/A
MISC-CEP200-7	Lagging/Fiberglass Cutting	9 VAC 5-80-720 B	PM, PM10	N/A
MISC-CEP209-4	Plastisol Coating Dip Tank System	9 VAC 5-80-720 B	Cadmium compounds, PM, PM10, Vinyl chloride, VOC	N/A
MISC-V58	Lapmaster Metal Sander	9 VAC 5-80-720 B	PM, PM10	N/A
PNT0-A81	Sign Shop	9 VAC 5-80-720 B	VOCs, VOHAPS	N/A
PNT0-LP20-EQP	Forklift repair, aerosol only	9 VAC 5-80-720 B	PM, PM10, VOCs, VOHAPS	N/A
PNT0-LP20-VEH	Vehicle Priming, aerosol only	9 VAC 5-80-720 B	PM, PM10, VOCs, VOHAPS	N/A
PNTS-V88-1 PNTS-V88-2	Paint hoods, aerosol only, boat engine parts	9 VAC 5-80-720 B	PM, PM10, VOCs, VOHAPS	N/A
PNTS-W7	Paint hood, aerosol only, boat engine parts	9 VAC 5-80-720 B	PM, PM10, VOCs, VOHAPS	N/A
PRNT-NH31	Printing Shop	9 VAC 5-80-720 B	PM, PM10, VOC, Xylenes	N/A
STRP-CEP209	Plastisol stripping tank	9 VAC 5-80-720 B	VOC	N/A
STRP-SP356	Paint stripping tank	9 VAC 5-80-720 B	VOC	N/A

*Hot water boilers meeting the definition of 'hot water heater' in Subpart DDDDD.

These emission units are presumed to be in compliance with all requirements of the federal Clean Air Act as may apply. Based on this presumption, no monitoring, recordkeeping, or reporting shall be required for these emission units in accordance with 9 VAC 5-80-110.

XV. Compliance Plan

204. **Compliance Plan - Description of Compliance Requirements** - The permittee is subject to the compliance schedule described below. The schedule includes a schedule of remedial measures, including an enforceable sequence of actions with milestones, leading to compliance with any applicable requirements for which the source will be in noncompliance at the time of permit issuance. This compliance schedule resembles and is at least as stringent as that contained in any judicial consent decree or Board order to which the source is subject. This schedule is supplemental to, and does not sanction noncompliance with, the applicable requirement upon which it is based.
(9 VAC 5-80-90 I.3.c)
205. **Compliance Plan - Compliance Schedule - 40 CFR 82, Subpart F (Protection of Stratospheric Ozone: Recycling and Emissions Reduction)** - Within 6 months of permit issuance, the permittee shall provide to DEQ records demonstrating that leak rate calculations are being performed, as required in 40 CFR 82.156(i)(5), for comfort cooling appliances normally containing 50 pounds or more of refrigerant charge. "Leak rate" is defined in §82.152 as "the rate at which an appliance is losing refrigerant, measured between refrigerant charges. The leak rate is expressed in terms of the percentage of the appliance's full charge that would be lost over a 12-month period if the current rate of loss were to continue over that period." The leak rate is calculated using only one of the methods outlined in §82.152.
(9 VAC 5-80-110 K.3, 40 CFR 82.156(i)(5), and General Condition 241)
206. **Compliance Plan - Compliance Schedule - 40 CFR 63, Subpart ZZZZ (National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines)** - Within 12 months of permit issuance, the permittee shall demonstrate that each emergency engine subject to the requirements of 40 CFR 63.6625(d) and (f) is equipped with a non-resettable hour meter, which records the hours of operation of each engine. In addition, within 12 months of permit issuance, the permittee shall provide to DEQ records which demonstrate the hours of operation of each engine subject to the requirements of 40 CFR 63.6655(f)(1) and (2) and documentation of how many hours were spent for emergency operation, including what classified the operation as emergency, and how many hours were spent for non-emergency operation. If the engine is used for the purposes specified in 63.6640(f)(2)ii) or (iii) or 63.6640(f)(4)(ii), the permittee must provide records of the notification of the emergency situation, and the date, start time, and end time of engine operation for these purposes..
(9 VAC 5-80-110 K.3, 9 VAC 5-60-100, 40 CFR 63.6625(d) and (f), 40 CFR 63.6655(f), and Condition 68)
207. **Compliance Plan - Compliance Schedule - 40 CFR 63, Subpart ZZZZ (National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines)** - Within 12 months of permit issuance, the permittee shall provide to DEQ records demonstrating that each emergency stationary RICE is operated according to the applicable requirements of 40 CFR 63.6640(f), in order for the engine to be considered an emergency stationary RICE under 40 CFR 63, Subpart ZZZZ. These requirements are outlined below:

- a. There is no time limit on the use of emergency stationary RICE in emergency situations.
 - b. You may operate your emergency stationary RICE for any combination of the purposes specified in paragraphs (f)(2)(i) through (iii) of 40 CFR 63.6640 for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by paragraphs (f)(3) and (4) of this section counts as part of the 100 hours per calendar year allowed by this paragraph.
 - i. Emergency stationary RICE may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of emergency RICE beyond 100 hours per calendar year.
 - ii. (Emergency stationary RICE may be operated for emergency demand response for periods in which the Reliability Coordinator under the North American Electric Reliability Corporation (NERC) Reliability Standard EOP-002-3, Capacity and Energy Emergencies (incorporated by reference, see §63.14), or other authorized entity as determined by the Reliability Coordinator, has declared an Energy Emergency Alert Level 2 as defined in the NERC Reliability Standard EOP-002-3.
 - iii. (Emergency stationary RICE may be operated for periods where there is a deviation of voltage or frequency of 5 percent or greater below standard voltage or frequency.
 - c. Emergency stationary RICE located at major sources of HAP may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing and emergency demand response provided in paragraph (f)(2) of this section. The 50 hours per year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity.

(9 VAC 5-80-110 K.3, 9 VAC 5-60-100, and 40 CFR 63.6640(f)(1-3), and Conditions 65, 66, and 68)
- 208. Compliance Plan - Compliance Schedule - 40 CFR 60, Subpart IIII (Standards of Performance for Stationary Compression Ignition Internal Combustion Engines) -**
Within 12 months of permit issuance, the permittee shall demonstrate that each emergency engine subject to the requirements of 40 CFR 60.4209(a) is equipped with a non-resettable hour meter, which records the hours of operation of each engine. In addition, within 12 months of permit issuance, the permittee shall provide to DEQ records which demonstrate the time of operation of each engine subject to 40 CFR 60.4209(a) and the reason the engine was in operation during that time.
(9 VAC 5-80-110 K.3, 9 VAC 5-50-410, 40 CFR 60.4209(a), 40 CFR 60.4214(b), and Condition 62)

209. **Compliance Plan - Compliance Schedule - 40 CFR 60, Subpart IIII (Standards of Performance for Stationary Compression Ignition Internal Combustion Engines)** - Within 18 months of permit issuance, the permittee shall provide to DEQ records which demonstrate that the diesel fuel used in each stationary compression ignition internal combustion engine subject to the requirements of 40 CFR 60, Subpart IIII meets the requirements of 40 CFR 60.4207(b). This paragraph requires that owners and operators of stationary CI ICE subject to 40 CFR 60, Subpart IIII with a displacement of less than 30 liters per cylinder that use diesel fuel must use diesel fuel that meets the requirements of 40 CFR 80.510(b) for nonroad diesel fuel, as follows:
- a. Maximum sulfur content of 15 ppm
 - b. Minimum cetane index of 40 or maximum aromatic content of 35 volume percent (9 VAC 5-80-110 K.3, 9 VAC 5-50-410, 40 CFR 60.4207(b), 40 CFR 80.510(b), and Condition 62)
210. **Compliance Plan - Compliance Schedule - 40 CFR 60, Subpart JJJJ (Standards of Performance for Stationary Spark Ignition Internal Combustion Engines)** - Within 12 months of permit issuance, the permittee shall demonstrate that each emergency engine subject to the requirements of 40 CFR 60.4237(a), (b), or (c) is equipped with a non-resettable hour meter, which records the hours of operation of each engine. In addition, within 12 months of permit issuance, the permittee shall provide to DEQ records which demonstrate the hours of operation of each engine subject to the requirements of 40 CFR 60.4237(a), (b), or (c) and documentation of how many hours were spent for emergency operation, including what classified the operation as emergency, and how many hours were spent for non-emergency operation. (9 VAC 5-80-110 K.3, 9 VAC 5-50-410, 40 CFR 60.4237(a-c), 40 CFR 60.4245(b), and Condition 63)
211. **Compliance Plan - Compliance Schedule** - Within 18 months of permit issuance, the permittee shall have achieved final compliance. (9 VAC 5-80-110 K.3)
212. **Compliance Plan - Reporting Requirements** - Within 14 days of the dates provided in the Compliance Schedule above, the permittee shall provide written confirmation that the milestone has been achieved. If the milestone is not achieved by the date required in the compliance schedule, the source shall, within 14 days of the date, provide a written explanation of the reason the compliance date was not met, a proposed alternate date and a statement as to the impact on the final compliance date. Extension of a compliance date may be cause for modification of this permit. (9 VAC 5-80-110 K.4)
213. **Compliance Plan - Certified Progress Report** - The permittee shall submit a certified progress report semi-annually detailing the progress made toward completion of the milestones in the Compliance Schedule above. The progress report must be certified by a responsible official and shall contain the following:

- a. Dates for achieving the activities, milestones, or compliance required in the schedule of compliance, and dates when such activities, milestones, or compliance were achieved.
- b. An explanation of why any dates in the schedule of compliance were not or will not be met, and any preventative or corrective measures adopted.

Certified progress reports shall be submitted as part of the semi-annual monitoring report required in Condition 214.

(9 VAC 5-80-90 I.4 and 9 VAC 5-80-110 K.4)

XVI. Permit Shield & Inapplicable Requirements

214. **Permit Shield & Inapplicable Requirements** - Compliance with the provisions of this permit shall be deemed compliance with all applicable requirements in effect as of the permit issuance date as identified in this permit. This permit shield covers only those applicable requirements covered by terms and conditions in this permit and the following requirements which have been specifically identified as being not applicable to this permitted facility:

Citation	Title of Citation	Description of Applicability
None Identified		

Nothing in this permit shield shall alter the provisions of §303 of the federal Clean Air Act, including the authority of the administrator under that section, the liability of the owner for any violation of applicable requirements prior to or at the time of permit issuance, or the ability to obtain information by (i) the administrator pursuant to §114 of the federal Clean Air Act, (ii) the Board pursuant to §10.1-1314 or §10.1-1315 of the Virginia Air Pollution Control Law or (iii) the Department pursuant to §10.1-1307.3 of the Virginia Air Pollution Control Law.

(9 VAC 5-80-140)

XVII. General Conditions

215. **General Conditions - Federal Enforceability** - All terms and conditions in this permit are enforceable by the administrator and citizens under the federal Clean Air Act, except those that have been designated as only state-enforceable.
(9 VAC 5-80-110 N)
216. **General Conditions - Permit Expiration** - This permit has a fixed term of five years. The expiration date shall be the date five years from the date of issuance. Unless the owner submits a timely and complete application for renewal to the Department consistent with the requirements of 9 VAC 5-80-80, the right of the facility to operate shall be terminated upon permit expiration.
(9 VAC 5-90-80B, C, and F, 9 VAC 5-80-110 D, and 9 VAC 5-80-170 B)
217. **General Conditions - Permit Expiration** - The owner shall submit an application for renewal at least six months but no earlier than eighteen months prior to the date of permit expiration.
(9 VAC 5-80-80 B, C, and F, 9 VAC 5-80-110 D, and 9 VAC 5-80-170 B)
218. **General Conditions - Permit Expiration** - If an applicant submits a timely and complete application for an initial permit or renewal under this section, the failure of the source to have a permit or the operation of the source without a permit shall not be a violation of Article 1, Part II of 9 VAC 5 Chapter 80, until the Board takes final action on the application under 9 VAC 5-80-150.
(9 VAC 5-80-80 B, C, and F, 9 VAC 5-80-110 D, and 9 VAC 5-80-170 B)
219. **General Conditions – Permit Expiration** – No source shall operate after the time that it is required to submit a timely and complete application under subsections C and D of 9 VAC 5-80-80 for a renewal permit, except in compliance with a permit issued under Article 1, Part II of 9 VAC 5 Chapter 60.
(9 VAC 5-80-80 B, C, and F, 9 VAC 5-80-110 D, and 9 VAC 5-80-170 B)
220. **General Conditions – Permit Expiration** – If an applicant submits a timely and complete application under section 9 VAC 5-80-80 for a permit renewal but the Board fails to issue or deny the renewal permit before the end of the term of the previous permit, (i) the previous permit shall not expire until the renewal permit has been issued or denied and (ii) all the terms and conditions of the previous permit, including any permit shield granted pursuant to 9 VAC 5-80-140, shall remain in effect from the date the application is determined to be complete until the renewal permit is issued or denied.
(9 VAC 5-80-80 B, C, and F, 9 VAC 5-80-110 D, and 9 VAC 5-80-170 B)

221. **General Conditions – Permit Expiration** - The protection under subsections F 1 and F 5 (ii) of section 9 VAC 5-80-80-F shall cease to apply if, subsequent to the completeness determination made pursuant section 9 VAC 5-80-80 D, the applicant fails to submit by the deadline specified in writing by the Board any additional information identified as being needed to process the application.
(9 VAC 5-80-80 B, C, and F, 9 VAC 5-80-110 D, and 9 VAC 5-80-170 B)
222. **General Conditions -Recordkeeping and Reporting** - All records of monitoring information maintained to demonstrate compliance with the terms and conditions of this permit shall contain, where applicable, the following:
- The date, place as defined in the permit, and time of sampling or measurements.
 - The date(s) analyses were performed.
 - The company or entity that performed the analyses.
 - The analytical techniques or methods used.
 - The results of such analyses.
 - The operating conditions existing at the time of sampling or measurement.
(9 VAC 5-80-110 F)
223. **General Conditions -Recordkeeping and Reporting** - Records of all monitoring data and support information shall be retained for at least five years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit.
(9 VAC 5-80-110 F)
224. **General Conditions -Recordkeeping and Reporting** - The permittee shall submit the results of monitoring contained in any applicable requirement to DEQ no later than **March 1** and **September 1** of each calendar year. This report must be signed by a responsible official, consistent with 9 VAC 5-80-80 G, and shall include:
- The time period included in the report. The time periods to be addressed are January 1 to June 30 and July 1 to December 31.
 - All deviations from permit requirements. For purpose of this permit, deviations include, but are not limited to:
 - Exceedance of emissions limitations or operational restrictions;
 - Excursions from control device operating parameter requirements, as documented by continuous emission monitoring, periodic monitoring, or Compliance Assurance Monitoring (CAM) which indicates an exceedance of emission limitations or operational restrictions; or,
 - Failure to meet monitoring, recordkeeping, or reporting requirements contained in this permit.

- c. If there were no deviations from permit conditions during the time period, the permittee shall include a statement in the report that “no deviations from permit requirements occurred during this semi-annual reporting period.”

(9 VAC 5-80-110 F)

225. General Conditions - Annual Compliance Certification - Exclusive of any reporting required to assure compliance with the terms and conditions of this permit or as part of a schedule of compliance contained in this permit, the permittee shall submit to EPA and DEQ no later than March 1 each calendar year a certification of compliance with all terms and conditions of this permit including emission limitation standards or work practices for the period ending December 31. The compliance certification shall comply with such additional requirements that may be specified pursuant to §114(a)(3) and §504(b) of the federal Clean Air Act. The permittee shall maintain a copy of the certification for five (5) years after submittal of the certification. This certification shall be signed by a responsible official, consistent with 9 VAC 5-80-80 G, and shall include:

- a. The time period included in the certification. The time period to be addressed is January 1 to December 31.
- b. The identification of each term or condition of the permit that is the basis of the certification.
- c. The compliance status.
- d. Whether compliance was continuous or intermittent, and if not continuous, documentation of each incident of non-compliance.
- e. Consistent with subsection 9 VAC 5-80-110 E, the method or methods used for determining the compliance status of the source at the time of certification and over the reporting period.
- f. Such other facts as the permit may require to determine the compliance status of the source.
- g. One copy of the annual compliance certification shall be submitted to EPA in electronic format only. The certification document should be sent to the following electronic mailing address:

R3_APD_Permits@epa.gov

(9 VAC 5-80-110 K.5)

226. General Conditions - Permit Deviation Reporting - The permittee shall notify the Director, Tidewater Regional Office (TRO) within four daytime business hours after discovery of any deviations from permit requirements which may cause excess emissions for more than one hour, including those attributable to upset conditions as may be defined in this permit. In addition, within 14 days of the discovery, the permittee shall provide a written statement explaining the problem, any corrective actions or preventative measures taken, and the estimated duration of the permit deviation. Owners subject to the requirements of 9 VAC 5-40-50 C and 9 VAC 5-50-50 C are not required to provide the written statement prescribed in this paragraph for facilities subject to the monitoring requirements of 9 VAC 5-40-40 and 9 VAC 5-50-40. The occurrence should also be reported in the next semi-annual compliance monitoring report pursuant to Condition 214 of this permit.

(9 VAC 5-80-110 F.2 and 9 VAC 5-80-250)

227. **General Conditions - Failure/Malfunction Reporting** - In the event that any affected facility or related air pollution control equipment fails or malfunctions in such a manner that may cause excess emissions for more than one hour, the owner shall, as soon as practicable but no later than four daytime business hours after the malfunction is discovered, notify the Director, Tidewater Regional Office (TRO) by facsimile transmission, telephone or telegraph of such failure or malfunction and shall within 14 days of discovery provide a written statement giving all pertinent facts, including the estimated duration of the breakdown. Owners subject to the requirements of 9 VAC 5-40-50 C and 9 VAC 5-50-50 C are not required to provide the written statement prescribed in this paragraph for facilities subject to the monitoring requirements of 9 VAC 5-40-40 and 9 VAC 5-50-40. When the condition causing the failure or malfunction has been corrected and the equipment is again in operation, the owner shall notify the Director, Tidewater Regional Office (TRO).
(9 VAC 5-20-180 C)
228. **General Conditions - Severability** - The terms of this permit are severable. If any condition, requirement or portion of the permit is held invalid or inapplicable under any circumstance, such invalidity or inapplicability shall not affect or impair the remaining conditions, requirements, or portions of the permit.
(9 VAC 5-80-110 G.1)
229. **General Conditions - Duty to Comply** - The permittee shall comply with all terms and conditions of this permit. Any permit noncompliance constitutes a violation of the federal Clean Air Act or the Virginia Air Pollution Control Law or both and is ground for enforcement action; for permit termination, revocation and reissuance, or modification; or, for denial of a permit renewal application.
(9 VAC 5-80-110 G.2)
230. **General Conditions - Need to Halt or Reduce Activity not a Defense** -It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.
(9 VAC 5-80-110 G.3)
231. **General Conditions - Permit Modification** -A physical change in, or change in the method of operation of, this stationary source may be subject to permitting under State Regulations 9 VAC 5-80-50, 9 VAC 5-80-1100, 9 VAC 5-80-1605, or 9 VAC 5-80-2000 and may require a permit modification and/or revisions except as may be authorized in any approved alternative operating scenarios.
(9 VAC 5-80-190 and 9 VAC 5-80-260)
232. **General Conditions - Property Rights** - The permit does not convey any property rights of any sort, or any exclusive privilege.
(9 VAC 5-80-110 G.5)

233. **General Conditions - Duty to Submit Information** - The permittee shall furnish to the Board, within a reasonable time, any information that the Board may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the Board copies of records required to be kept by the permit and, for information claimed to be confidential, the permittee shall furnish such records to the Board along with a claim of confidentiality.
(9 VAC 5-80-110 G.6)
234. **General Conditions - Duty to Submit Information** - Any document (including reports) required in a permit condition to be submitted to the Board shall contain a certification by a responsible official that meets the requirements of 9 VAC 5-80-80 G.
(9 VAC 5-80-110 K.1)
235. **General Conditions - Duty to Pay Permit Fees** - The owner of any source for which a permit under 9 VAC 5-80-50 through 9 VAC 5-80-300 was issued shall pay permit fees consistent with the requirements of 9 VAC 5-80-310 through 9 VAC 5-80-350. The actual emissions covered by the permit program fees for the preceding year shall be calculated by the owner and submitted to the Department by April 15 of each year. The calculations and final amount of emissions are subject to verification and final determination by the Department.
(9 VAC 5-80-110 H and 9 VAC 5-80-340 C)
236. **General Conditions - Fugitive Dust Emission Standards** - During the operation of a stationary source or any other building, structure, facility, or installation, no owner or other person shall cause or permit any materials or property to be handled, transported, stored, used, constructed, altered, repaired, or demolished without taking reasonable precautions to prevent particulate matter from becoming airborne. Such reasonable precautions may include, but are not limited to, the following:
- a. Use, where possible, of water or chemicals for control of dust in the demolition of existing buildings or structures, construction operations, the grading of roads, or the clearing of land;
 - b. Application of asphalt, water, or suitable chemicals on dirt roads, materials stockpiles, and other surfaces which may create airborne dust; the paving of roadways and the maintaining of them in a clean condition;
 - c. Installation and use of hoods, fans, and fabric filters to enclose and vent the handling of dusty material. Adequate containment methods shall be employed during sandblasting or similar operations;
 - d. Open equipment for conveying or transporting material likely to create objectionable air pollution when airborne shall be covered or treated in an equally effective manner at all times when in motion; and,
 - e. The prompt removal of spilled or tracked dirt or other materials from paved streets and of dried sediments resulting from soil erosion.
- (9 VAC 5-40-90 and 9 VAC 5-50-90)

237. **General Conditions - Startup, Shutdown, and Malfunction** At all times, including periods of startup, shutdown, soot blowing, and malfunction, owners shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with air pollution control practices for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Board, which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.
(9 VAC 5-50-20 E and 9 VAC 5-40-20 E)
238. **General Conditions - Alternative Operating Scenarios** - Contemporaneously with making a change between reasonably anticipated operating scenarios identified in this permit, the permittee shall record in a log at the permitted facility a record of the scenario under which it is operating. The permit shield described in 9 VAC 5-80-140 shall extend to all terms and conditions under each such operating scenario. The terms and conditions of each such alternative scenario shall meet all applicable requirements including the requirements of 9 VAC 5 Chapter 80, Article 1.
(9 VAC 5-80-110 J)
239. **General Conditions - Inspection and Entry Requirements** - The permittee shall allow DEQ, upon presentation of credentials and other documents as may be required by law, to perform the following:
- a. Enter upon the premises where the source is located or emissions-related activity is conducted, or where records must be kept under the terms and conditions of the permit.
 - b. Have access to and copy, at reasonable times, any records that must be kept under the terms and conditions of the permit.
 - c. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit.
 - d. Sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements.
- (9 VAC 5-80-110 K.2)
240. **General Conditions - Reopening For Cause** - The permit shall be reopened by the Board if additional federal requirements become applicable to a major source with a remaining permit term of three years or more. Such reopening shall be completed no later than 18 months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended pursuant to 9 VAC 5-80-80 F. The conditions for reopening a permit are as follows:

- a. The permit shall be reopened if the Board or the administrator determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit.
 - b. The permit shall be reopened if the administrator or the Board determines that the permit must be revised or revoked to assure compliance with the applicable requirements.
 - c. The permit shall not be reopened by the Board if additional applicable state requirements become applicable to a major source prior to the expiration date established under 9 VAC 5-80-110 D.
(9 VAC 5-80-110 L)
241. **General Conditions - Permit Availability** - Within five days after receipt of the issued permit, the permittee shall maintain the permit on the premises for which the permit has been issued and shall make the permit immediately available to DEQ upon request.
(9 VAC 5-80-150 E)
242. **General Conditions - Transfer of Permits** - No person shall transfer a permit from one location to another, unless authorized under 9 VAC 5-80-130, or from one piece of equipment to another.
(9 VAC 5-80-160)
243. **General Conditions - Transfer of Permits** - In the case of a transfer of ownership of a stationary source, the new owner shall comply with any current permit issued to the previous owner. The new owner shall notify the Board of the change in ownership within 30 days of the transfer and shall comply with the requirements of 9 VAC 5-80-200.
(9 VAC 5-80-160)
244. **General Conditions - Transfer of Permits** - In the case of a name change of a stationary source, the owner shall comply with any current permit issued under the previous source name. The owner shall notify the Board of the change in source name within 30 days of the name change and shall comply with the requirements of 9 VAC 5-80-200.
(9 VAC 5-80-160)
245. **General Conditions - Permit Revocation or Termination for Cause** - A permit may be revoked or terminated prior to its expiration date if the owner knowingly makes material misstatements in the permit application or any amendments thereto or if the permittee violates, fails, neglects or refuses to comply with the terms or conditions of the permit, any applicable requirements, or the applicable provisions of 9 VAC 5 Chapter 80 Article 1. The Board may suspend, under such conditions and for such period of time as the Board may prescribe any permit for any grounds for revocation or termination or for any other violations of these regulations.
(9 VAC 5-80-190 C and 9 VAC 5-80-260)
246. **General Conditions - Duty to Supplement or Correct Application** - Any applicant who fails to submit any relevant facts or who has submitted incorrect information in a permit application shall, upon becoming aware of such failure or incorrect submittal, promptly submit such supplementary facts or corrections. An applicant shall also provide additional information as necessary to address any requirements that become applicable to the source after the date a complete application was filed but prior to release of a draft permit.
(9 VAC 5-80-80 E)

247. **General Conditions - Stratospheric Ozone Protection** - If the permittee handles or emits one or more Class I or II substances subject to a standard promulgated under or established by Title VI (Stratospheric Ozone Protection) of the federal Clean Air Act, the permittee shall comply with all applicable sections of 40 CFR Part 82, Subparts A to F.
(40 CFR Part 82, Subparts A-F)
248. **General Conditions - Asbestos Requirements** - The permittee shall comply with the requirements of National Emissions Standards for Hazardous Air Pollutants (40 CFR 61) Subpart M, National Emission Standards for Asbestos as it applies to the following: Standards for Demolition and Renovation (40 CFR 61.145), Standards for Insulating Materials (40 CFR 61.148), and Standards for Waste Disposal (40 CFR 61.150).
(9 VAC 5-60-70 and 9 VAC 5-80-110 A.1)
249. **General Conditions – Accidental Release Prevention** – If the permittee has more , or will have more than a threshold quantity of a regulated substance in a process, as determined by 40 CFR 68.115, the permittee shall comply with the requirements of 40 CFR Part 68
(40 CFR Part 68)
250. **General Conditions – Changes to Permits for Emissions Trading** – No permit revisions shall be required under any federally approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this permit.
251. **General Conditions - Emissions Trading** - Where the trading of emissions increases and decreases within the permitted facility is to occur within the context of this permit and to the extent that the regulations provide for trading such increases and decreases without a case-by-case approval of each emissions trade:
- a. All terms and conditions required under 9 VAC 5-80-110, except subsection N, shall be included to determine compliance.
 - b. The permit shield described in 9 VAC 5-80-140 shall extend to all terms and conditions that allow such increases and decreases in emissions.
 - c. The owner shall meet all applicable requirements including the requirements of 9 VAC 5-80-50 through 9 VAC 5-80-300.
(9 VAC 5-80-110 I)

XVIII. State-Only Enforceable Requirements

252. **State-Only Enforceable Requirements** - The following terms and conditions are not required under the federal Clean Air Act or under any of its applicable federal requirements, and are not subject to the requirements of 9 VAC 5-80-290 concerning review of proposed permits by EPA and draft permits by affected states.

9 VAC 5-40-140 Existing Source Standard for Odor

9 VAC 5-50-220 Existing Source Standard for Toxic Pollutants

9 VAC 5-50-140 New and Modified Source Standard for Odor

9 VAC 5-50-320 New and Modified Source Standard for Toxic Pollutants

(9 VAC 5-80-110 N and 9 VAC 5-80-300)